

Electrics



Foldable solar panel set with 200 watt power

- Fits on the windshield of most vans
- Shingle PERC solar cells (monocrystalline) for more power on the same area and less loss in case of partial shading
- Incl. PWM charge controller LS2024EU (12/24 V, 20 A) with USB output (5 V, 1.2 A) for charging cell phones & co.
- Sewn-on pocket with integrated cable connector with 1x USB-A (5V/2A), 1x USB-QC 3.0 (12V/1.5A max.), 1x USB-C (20V/3A max.)
- Incl. 3 adapter cables with high current connector (50 A): Crocodile clips, cigarette lighter cable, Mini Anderson (1 m each)
- Additional protective bag for storing the connection cables

NEW
2023



For the complete product description and all technical data, see page 954.



Full lithium and AGM power

All Carbest lithium and AGM batteries, the complete product descriptions and all technical data can be found from page 968 onwards.

NEW
2023



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Know-How & Competence

Tips, advice & recommendations from the professional



Solar technology

Why solar in the motorhome?

- A solar system in the motorhome makes it possible to meet the need for electric Energy self-sufficiently and away from shore power.
- Solar energy is used to generate electricity, with which the body battery is charged.
- Thus, especially when traveling in sunny regions, the solar system can be a clear gain for independence.

Retrofit solar system

- Usually, solar panels are glued to the roof of the vehicle, or by means of Spoilers and other devices attached.
- But there are also mobile variants that can be used as needed.

What do I need to consider before retrofitting?

- How much space do I have available on the roof?
- How much energy is needed every day? (Consumption of the devices)
- How much energy can be stored? (battery capacity)

How do I find the right system?

- To find the right plant, first of all, the daily consumption must be of the electrical devices can be determined.

Example calculation consumption:

TV: 45 W x 2 hours/day = 90Wh
Lamps: 3 x 3 W x 3 hours/day = 27Wh
Small consumption: 15 Wh/day
Energy consumption 132 Wh/day

The yield of a solar system, can vary greatly throughout the year. In the summer months (May-September), 10 hours of daylight correspond to about 4 hours of maximum output of the solar system.

Example calculation yield:

e.g. solar panel 90 W
90 W x 4 hrs/day = 360 Wh/day

With the data now available, it is now possible to the energy consumption and the required Battery capacity can be calculated.

Example calculation energy consumption for 3 days of independence:

3 x 132 Wh = 396 Wh
Plus 30% reserve
1.3 x 396 Wh = 515 Wh

Calculation ampere hours:

515 Wh : 12 V = 43 Ah
Discharge reserve
43 Ah x factor 2 = 86 Ah
(rounded 90 Ah battery, recommended 100 Ah)

The importance of solar charge controllers

- Charge controllers determine, among other things, how efficiently the energy obtained from the Solar panels, is used to charge the batteries.
- The charge controller converts the higher voltage of the panels into the 12 V Voltage of the battery and thereby regulates the current intensity so that the Battery can be charged as ideally as possible.
- It must be ensured that the charge controller has the appropriate Input voltage can tolerate and to the respective battery of the Vehicle fits.

Why an MPPT charge controller?

- The so-called Maximum Power Point (MPP for short), is the point at which the panel can deliver the highest power. This is just below the open circuit voltage.
- Try chargers with MPPT (Maximum Power Point Tracking) function regulate the current so that the voltage is as close as possible to the MPP remains. In this way, maximum power output can be achieved.



Chargers

- Chargers in the motorhome are used to charge the supply battery, while the vehicle is connected to shore power.
- In any case, it should be noted that the charger with the battery is compatible with the one installed in the device.



Inverter

- In principle, only 12 volts are available in the vehicle via the supply battery available. Nevertheless, those who use appliances such as electric stoves, hair dryers or Coffee machines to operate over 230 volts, must use an inverter/install inverter.
- As with chargers, care must be taken to ensure that the Inverter is compatible with the existing battery.
- A distinction is made in inverters between devices with sinusoidal-voltage and devices with pure sinusoidal voltage.
- For certain end devices, it is recommended to use an inverter with pure Sinusoidal voltage, as they are either quite sensitive, or have a high Need starting current for starting. These include, for example, modern Coffee machines / laptops / LED lamps / refrigerators / air conditioners.
- The terminal equipment to be operated also determines which permanent-power and peak power (specified in watts) of the inverters have must. If, for example, a coffee machine has a starting current of 600 W - the peak power of the inverter must be at least equal to this value..

PowerPanel Flex - from 80 to 160 watts

**ETFE
TOP-
AREA**
**FIBERGLASS
OR TPT
CARRIER
PLATE**
**SUN
POWER
CELLS**
**INCL.
CABLE
2x 2,5
mm²**
**ONLY
3 mm
THICK**


Connection box on
the Panel back!
Junction box at the
back side!

- Sunpower cells: Significant plus in power output even at a less than optimal angle to the sun
- Ca. 5 x lighter than conventional modules
- Can be walked on when glued over a wide area
- Compact connector with pre-installed cable (2 x 2.5 mm²)
- Compatible with solar controllers from Carbest or Votronic
- Ideal also for maritime use

The solar modules provide more power than conventional PV modules of the same size. Thanks to the high-quality ETFE surface with honeycomb structure, there is a significant increase in performance in twilight and cloudy conditions.

Especially at high temperatures, the performance is significantly higher than comparable modules. This means maximum efficiency without any loss of performance. The above-average bending capacity also makes the Carbest modules ideal for maritime applications.

Material top layer:

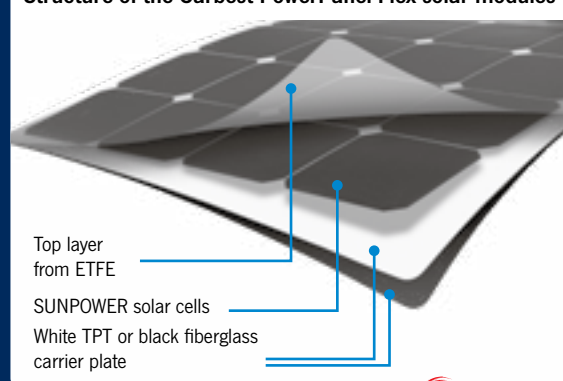
ETFE: Very hard and thin (ca. 0.025 mm) material with high light transmission of ca. 95%. Heat resistant up to ca. 150°C. Very high weather resistance, also suitable for salt water.

Material carrier plate:

TPT: Material with high bending capacity. More flexible than fiberglass.

Fiberglass: Very strong, hard material for the best possible protection of the solar cells.

Structure of the Carbest PowerPanel Flex solar modules



**TOTAL
7 MODULE
FOR SELECTION**



**REIMO
TOP PRICE**
from **219,-**

**NEW
2023**

	Power Panel Flex 80 white*	Power Panel Flex 110 Pro black	Power Panel Flex 110 white	Power Panel Flex 125 Pro Square black	Power Panel Flex 135 Square white*	Power Panel Flex 150 Pro black*	Power Panel Flex 160 white* <small>rear connection box</small>
Power/Number of cells	80 W/56 cells	110 W/32 cells	110 W/32 cells	125 W/36 cells	135 W/36 cells	150 W/44 cells	160 W/44 cells
Material top layer	ETFE	ETFE	ETFE	ETFE	ETFE	ETFE	ETFE
Material carrier plate	TPT	Fiberglass	TPT	Fiberglass	TPT	Fiberglass	TPT
Cell efficiency	20,8 %	22,5 %	22,6 %	22,5 %	24,4 %	24,4 %	23,7 %
Short circuit current (Isc)	2,8 A	6,88 A	6,32 A	6,94 A	6,41 A	6,41 A	6,18 A
Open circuit voltage (Voc)	36,5 Volt	20.77 Volt	21,9 Volt	23,36 Volt	26.2 Volt	29.2 Volt	32.2 Volt
Rated voltage (Vmp)	30.8 Volt	17,6 Volt	18,6 Volt	19,8 Volt	22,3 Volt	24.8 Volt	27,3 Volt
Rated current (Imp)	2,6 A	6,25 A	5,97 A	6,31 A	6,05 A	6,05 A	5,83 A
Size mm LxWxH (Box H)	980 x 550 x 3 (22)	1100 x 540 x 2,5 (22)	1095x540x3 (22)	840x800x2,5 (22)	860 x 800 x 3 (22)	1360 x 540 x 3 (22)	1460 x 540 x 3 (22)
Cable (2 x 2.5 mm²)	8 m	6 m	8 m	8 m	8 m	8 m	8 m
Weight incl. cable	ca. 2.1 kg	ca. 4.0 kg	ca. 3,2 kg	ca. 4,3 kg	ca. 3.9 kg	ca. 5 kg	ca. 4,8 kg
Item no.	85319	853180	853170	853173	853175	853176	85333
Price	219,-	435,-	289,-	349,-	399,-	533,-	419,-

*We recommend an MPPT charge controller (e.g. 851005 or 851006, page 958)

PowerPanel Flex complete sets from 80 to 160 watts

**POWER
PANEL
MODULE**
**SUN
POWER
CELLS**
**INCL.
MPPT
CHARGE
CONTROLLER**
**INCL.
CABLE
2x 2,5
mm²**
**ALL SETS INCLUDING SOLAR
CONTROLLER, ROOF THROUGH-
GUIDE AND SOLAR CABLE**
**TOTAL
7 SETS
FOR SELECTION**

- Sets include solar module with pre-installed cable, high quality MPPT solar controller and roof bushing
- MPPT solar controller for charging GEL, lead-acid, AGM and LiFePO4 batteries (battery type adjustable)
- Power from 80 to 160 watts

Complete set Power Panel Flex 80 white

Optimal for low power requirements. e.g. for light and water pump or for charging smartphones/tablet, battery packs or cameras. Suitable also for battery conservation and compensation of silent consumers.

Complete set Power Panel Flex 110-135 white or black

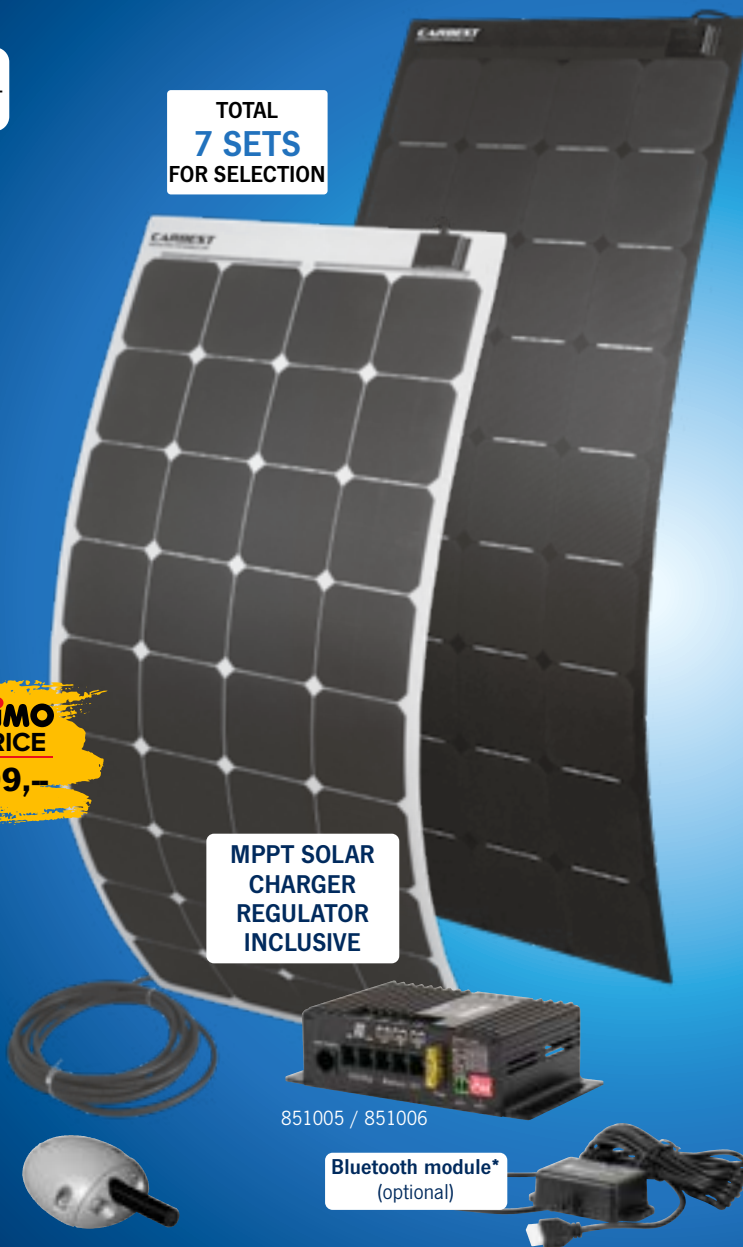
Set with Carbest solar panel 110W or 125W or 135 W e.g. for light, water pump, compressor cooler, occasional heating.

Complete set Power Panel Flex 150/160 white or black

Set with the Carbest 150/160 W solar panel. e. g. E.g. for light, pump, TV/Sat, heating and compressor fridge.

**REIMO
TOP PRICE
from 299,-**
**MPPT SOLAR
CHARGER
REGULATOR
INCLUSIVE**


Ideal for vans and motorhomes. Ensures consistent driving behavior.



851005 / 851006

Bluetooth module*
(optional)

	Complete set Power Panel Flex 80 white	Complete set Power Panel Flex 110 Pro black	Complete set Power Panel Flex 110 white	Complete set Power Panel Flex 125 Pro Square black	Complete set Power Panel Flex 135 Square white	Complete set Power Panel Flex 150 Pro black	Complete set Power Panel Flex 160 white (rear connection box)
Solar panel power	80 W	110 W	110 W	125 W	135 W	150 W	160 W
Solar panel	1 x 85319	1 x 853180	1 x 853170	1 x 853173	1 x 853175	1x 853176	1x 85333
Size mm LxWxH (Box H)	980 x 550 x 3 (22)	1100 x 540 x 2,5 (22)	1095x540x3 (22)	840x800x2,5 (22)	860 x 800 x 3 (22)	1475 x 540 x 3 (22)	1460 x 540 x 3 (22)
Cable (2 x 2.5 mm²)	8 m preinstalled	6 m preinstalled	8 m preinstalled	8 m preinstalled	8 m preinstalled	8m preinstalled	8m preinstalled
MPPT solar charge controller	851005	851005	851005	851005	851005	851005	851006
Controller power	165 W	165 W	165 W	165 W	165 W	165 W	350 W
Cable gland	85201	85201	85201	85201	85201	85201	85201
Item no.	85270	85269	85272	85273	85277	85278	85276
Price	299,-	519,-	369,-	439,-	469,-	599,-	529,-

*Bluetooth module for MPPT solar charge controller 851005/851006

Display of relevant solar data on the smartphone via Bluetooth. Cable length: 3 m

851007 34,90

PowerPanel SFX135 single module - Extremely robust with ETFE sheathing

**135
WATT****EXTREME
ROBUST****FIBER-
GLASS
CARRIER-
PLATE****SUN
POWER
CELLS****ETFE-
ENVIRON-
MENTAL****6 m
CABLE
2x 2,5
mm²**

- Very resistant due to ETFE front and back foil with welded outer edges
- SUNPOWER high performance cells
- Walkable with full surface bonding
- Compact junction box
- 6 m cable (2 x 2.5 mm²) pre-installed

The 135 W PowerPanel SFX135 is a semi-flexible solar panel with a new material composition. The SUNPOWER high-performance cells are mounted on a stable, black fiberglass carrier plate, which is encased in an extremely resistant ETFE layer. This ETFE film is on both the front and back of the module and is welded together at the edge. This design ensures optimum protection of the internal cells and makes the PowerPanel SFX135 extremely robust against scratches, heat, high humidity and sea and salt water.

Power / Sunpower cell count	135 W/36 cells
Material top layer front and back	ETFE
Material carrier plate	Fiberglass (black)
Cell efficiency	24,40 %
Short circuit current (Isc)	6,42 A
Open circuit voltage (Voc)	26,3 Volt
Rated voltage (Vmp)	22,3 Volt
Rated current (Imp)	6,06 A
Size mm LxWxH (height connection box)	1235x540x4 (ca. 22)
Cable (2 x 2.5mm ²)	6 m
Weight incl. cable	ca. 4,5 kg
Item no.	84031
Price	489,-



Fiberglass Sheet, ETFE Jacketed



SUNPOWER cells



Compact junction box (H: 22 mm)



6 m connection cable pre-assembled


NEW
 2023

PowerPanel SFX135 complete set

**POWER
PANEL
SFX135****135
WATT****INCL.
MPPT
CHARGE
CONTROLLER****6 m
CABLE
2x 2,5
mm²**

- Set includes solar module SFX135 with pre-installed cable (length 6 m), high-quality MPPT charge controller, roof bushing
- MPPT solar controller for charging GEL, lead-acid, AGM and LiFePO4 batteries (battery type adjustable)

Solar panel power	135 W
Solar panel	1 x 84031
Size mm LxWxH (Box H)	1235x540x4 (ca. 22)
Cable (2 x 2.5 mm ²)	6 m preinstalled
MPPT solar charge controller	851005
Controller power	165 W
Cable gland	85258
Item no.	85279
Price	549,-


**MPPT SOLAR
CHARGER
REGULATOR
INCLUSIVE**

Bluetooth module*
 (optional)

*Bluetooth module for MPPT solar charge controller 851005

Display of relevant solar data on the smartphone via Bluetooth. Cable length: 3 m

851007 34,90

MC CAMPING

Outdoor Equipment

Basic Panel Flex MC-110 + MC-170 for smart spenders

PET
TOP-
AREA

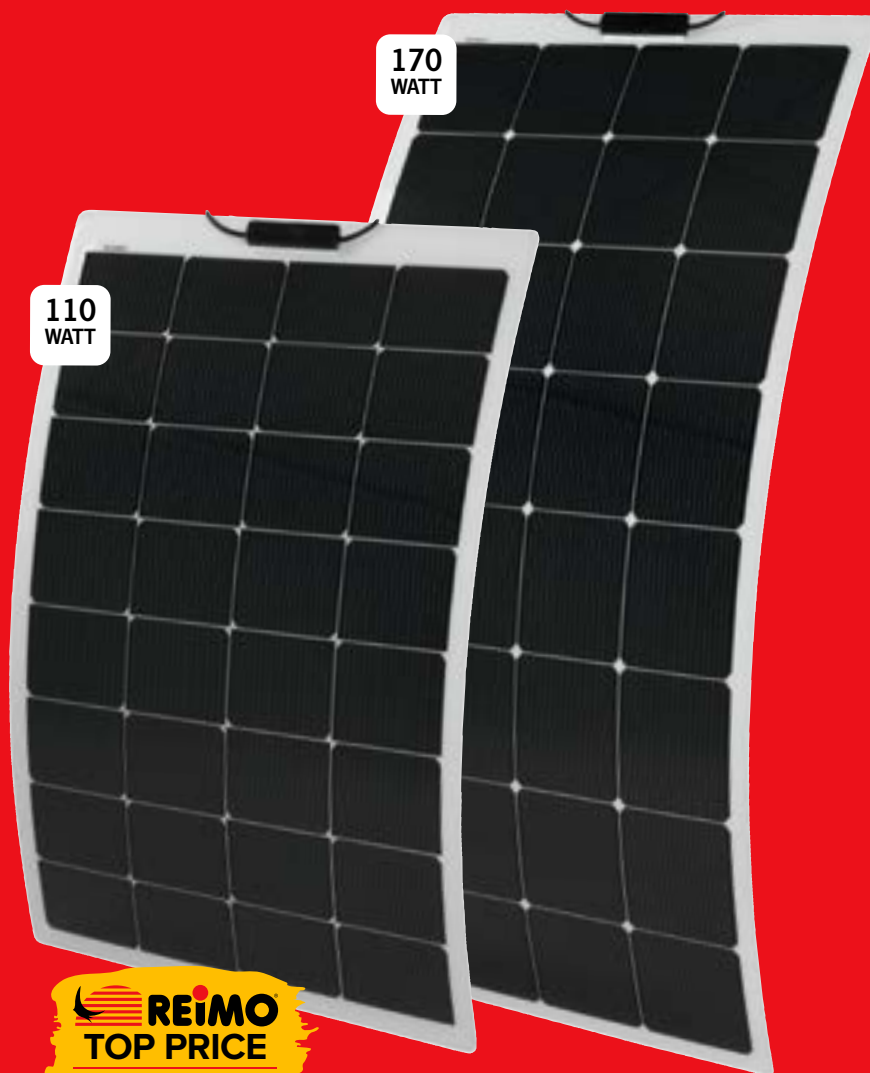
TPT
CARRIER
PLATE

MONO
CELLS

90 cm
CABLE
4,0 mm²

MC4
SOLAR-
STOCK
+ SOCKET

- Top price-performance ratio
- 110 W or 170 W power
- High power generation with low weight
- Monocrystalline cells
- PET top layer
- TPT carrier plate
- Incl. 90 cm connection cable
- With MC4 solar plug + socket



REIMO
TOP PRICE

from **199,-**

	Basic Panel Flex MC-110	Basic Panel Flex MC-170
Power / Cell type	110 W / monocrystalline cells	170 W / monocrystalline cells
Short circuit current (Isc)	6,67 A	10,32 A
Open circuit voltage (Voc)	21,12 V	21,12 V
Rated voltage (Vmp)	18 V	18 V
Rated current (Imp)	6,14 A	9,48 A
Operating temperature	-40°C ~ +85°C	-40°C ~ +85°C
Size in mm LxWxH	955x700x2,5	1370x700x2,5
Cable (4.0 mm ²) pre-installed with MC4 male and female connector	0,9 m	0,9 m
Weight	ca. 2,5 kg	ca. 3,5 kg
Carrier plate color	White	White
Art. No.	853412	853413
Price	199,-	299,-

Please order MC4 solar connector set (84052) for connection. For details, see page 956.

High performance solar modules with aluminum frame from 115 to 190 watts

ALU
FRAMESAFETY-
GLASSMONO
CELLSINCL.
CABLE
2x 2,5
mm²
TOTAL
9 MODULE
FOR SELECTION

- All solar modules with solid aluminum frame (CB Series Color Silver, Full Black Series Color Black)
- Monocrystalline cells under annealed glass
- Protected cable connection (2x 2.5 mm²)
- Power: 115 to 190 watts
- 25 years performance warranty (After 25 years still 80% power)



	CB-115 Slim (slim design)	CB-115	NEW 2023 CB-155	NEW 2023 CB-170	115W Full-Black	135W Full-Black	NEW 2023 155W Full-Black	NEW 2023 170W Full-Black	NEW 2023 190W Full-Black
Power	115 W	115 W	155 W	170 W	115 W	135 W	155 W	170 W	190 W
Cell count	32 cells	36 cells	36 cells	36 cells	36 cells	36 cells	36 cells	36 cells	35 cells
Efficiency d. cells	23,0%	22,0%	22,0%	22,0%	22,4%	22,4%	22,4%	22,4%	22,40%
Short circuit current (Isc)	6,92 A	6,16 A	8,3 A	9,02 A	6,27 A	7,36 A	8,45 A	9,03 A	10,46 A
Open circuit voltage (Voc)	21,33 Volt	23,96 Volt	23,96 Volt	24,18 Volt	23,52 Volt	23,52 Volt	23,52 Volt	24,16 Volt	23,31 Volt
Rated voltage (Vmp)	17,62 Volt	19,80 Volt	19,8 Volt	19,85 Volt	19,43 Volt	19,43 Volt	19,43 Volt	19,80 Volt	19,26 Volt
Rated current (Imp)	6,53 A	5,81 A	7,83 A	8,56 A	5,92 A	6,95 A	7,98 A	8,59 A	9,87 A
Size in mm LxWxH	1580x410x35	1200x545x35	1640x545x35	1755x545x35	1200x545x35	1400x545x35	1640x545x35	1755x545x35	1175x840x35
Cable preinstalled	1m	1m	6m	6m	1m	1m	6m	6m	6m
Weight ca.	7,5 kg	7,5 kg	10,5 kg	11,3 kg	7,5 kg	9,0 kg	10,5 kg	11,3 kg	11,8 kg
Art. No.	852382	852380	852389	852391	852381	852384	852390	852392	852393
Price	229,-	219,-	329,-	349,-	253,-	269,-	369,-	379,-	429,-

CARBEST
 INNOVATIONS FOR MOBILE LIFE

CB Solar complete sets from 115 to 310 watts

 ALU
FRAME
SILVER

 SAFETY-
GLASS

 MONO
CELLS

 INCL.
CABLE
2x 2,5
mm²

 ALL SETS INCL. MOUNTING
BRACKET, CHARGE CONTROL-
LER, ROOF THROUGH-
GUIDE AND SOLAR CABLE

- Sets include solar panel(s) with bracket, roof grommet, MPPT solar charge controller and solar cable (All sets with MPPT solar charge controller except starter set)
- MPPT solar controller for charging GEL, lead-acid, AGM and LiFePO4 batteries (battery type adjustable)
- Monocrystalline cells, silver solid aluminum frame
- Tempered glass
- With pre-installed connection cable (2x 2.5 mm²)
- Power: 115 to 310 watts
- 25 years performance warranty (After 25 years still 80% power)

 MPPT SOLAR
CHARGE-
CONTROLLER
INCLUSIVE
(EXCEPT STARTER-SET)


851005 / 851006

 Bluetooth module*
(optional)


85135



85049



850491

	Complete set CB-115 Slim	Starter complete set CB-115B (without MPPT solar charge controller)	Complete set CB-115	NEW 2023 Complete set CB-155	NEW 2023 Complete set CB-170	Complete set CB-230	NEW 2023 Complete set CB-310
Solar panel power	1x 115 W	1x 115 W	1x 115 W	1x 155 W	1x 170 W	2x 115 W	2x 155 W
Solar panel	1x 852382	1x 852380	1x 852380	1x 852389	1x 852391	2x 852380	2x 852389
Size in mm LxWxH	1580x410x35	1200x545x35	1200x545x35	1640x545x35	1755x545x35	2x 1200x545x35	2x 1400x545x35
Charge controller	851005	85135	851005	851005	851006	851006	851006
Controller power	165 W	180 W	165 W	165 W	350 W	350 W	350 W
Cable (2x 2,5 mm ²)	10 m	10 m	10 m	6 m	6 m	10 m	6 m
Cable grommet (white)	85049	85049	85049	85049	85049	850491	850491
Mounting spoiler (white)	850900	850906	850906	850906	850906	2x 850906	2x 850906
Art. No.	851079	851095	851096	851100	851101	851077	851102
Price	325,-	249,-	289,-	429,-	479,-	519,-	779,-

*Bluetooth module for MPPT solar charge controller 851005/851006

Display of relevant solar data on the smartphone via Bluetooth.

Cable length: 3 m

851007

34,90

CARBEST
 INNOVATIONS FOR MOBILE LIFE

Full Black Solar Complete Sets from 115 to 190 watts

 ALU
FRAME
BLACK

 SAFETY-
GLASS

 MONO
CELLS

 INCL.
CABLE
2x 2,5
mm²

 ALL SETS INCL. MOUNTING
BRACKET, CHARGE CONTROL-
LER, ROOF THROUGH-
GUIDE AND SOLAR CABLE

- Sets include solar module with mounting spoiler, roof feedthrough, MPPT solar charge controller, and solar cable
- MPPT solar controller for charging GEL, lead-acid, AGM and LiFePO4 batteries (battery type adjustable)
- Monocrystalline cells, black coated aluminum frame
- With pre-installed connection cable (2x 2.5 mm²)
- Power: 115 to 190 watts
- 25 years performance guarantee
(After 25 years still 80% performance)

 MPPT SOLAR
CHARGE-
CONTROLLER
INCLUSIVE

 COMPLETE SET
190W
FULL-BLACK
Suitable for many
vehicle roofs.
Size: LxW
1175x840 mm


850909 / 850911

851005 / 851006

 Bluetooth module*
(optional)


	Complete set 115W Full-Black	Complete set 135W Full-Black	Complete set 155W Full-Black	Complete set 170W Full-Black	Complete set 190W Full-Black
Solar panel power	1x 115 W	1x 135 W	1x 155 W	1x 170 W	1x 190 W
Solar panel	1x 852381	1x 852384	1x 852390	1x 852392	1x 852393
Size in mm LxWxH	1200x545x35	1400x545x35	1640x545x35	1755x545x35	1175x840x35
MPPT solar charge controller	851005	851005	851005	851006	851006
Controller power	165 W	165 W	165 W	350 W	350 W
Cable (2x 2,5 mm ²)	10 m	10 m	6 m	6 m	6 m
Cable grommet (black)	850493	850493	850493	850493	850493
Mounting spoiler (black)	850909	850909	850909	850909	850911
Art. No.	851103	840314	851104	851105	851106
Price	389,-	399,-	469,-	499,-	549,-

*Bluetooth module for MPPT solar charge controller 851005/851006

Display of relevant solar data on the smartphone via Bluetooth.

Cable length: 3 m

851007

34,90

Which solar system should I take?

Solar panels are probably one of the most sensible purchases around the motorhome. The electricity from the sun is maintenance-free and free of charge. It is generated silently and turns a motorhome into a recreational vehicle that no longer relies on a power outlet. Solar systems are easy to install and are simply connected additionally to the existing on-board battery.



The best-selling solar set. The test winner solar system with 72-cell solar module for optimum performance even in inclement weather or partial shading.



Little surface area, high performance. 40 high-performance cells in combination with a MPP solar controller ensure optimal power yield on a small area - worldwide!



Can be glued directly and can be walked on. Solar panel with high performance cells suitable for all climates.



Foldable, mobile solar modules with incorporated magnets for mounting, for example, on the roof of a vehicle.

Book tip: Solar power in the motorhome

The practical book for all who want to use solar technology in their motorhome or caravan. Describes on 120 pages with many pictures and easy to understand everything from conception to installation. Those who already have a solar system will find many tips for accessories as well as everything for troubleshooting.

95167

11,90



MT Solar Complete Systems "BLACK LINE"

- Performance advantages in adverse weather conditions
- Complete sets with mounting accessories
- Including TÜV-tested adhesive set

Installation kit that includes everything needed to set up a solar system for a touring vehicle. Comes with matching spoiler profiles and the sturdy roof grommet. Made of high-quality PUR plastic, these components are safe from harmful UV radiation and also extremely weather resistant. The solar modules are screwed to the spoiler profiles, and thus there is the possibility to remove the system at any time when changing vehicles. The bracket itself is glued to the roof with a special adhesive set. Bonding has the advantage that no fixing holes need to be drilled in the roof cladding. The solar controllers of the systems have the latest characteristic curves and are adjustable to gel/AGM, acid and also lithium batteries. In addition, they have a second charging output (start battery) and a connection for the solar remote display (option). The solar controllers of the MT 75 MC-S, MT 80 MC, MT 110 MC, MT 130 MC and MT 170 MC systems are designed in such a way that a module of the same power can be added if required. For vehicles with EBL base station (Hymer Group vehicles), a suitable connection cable set is also included.

Equipment of the solar complete systems: MT-Black Line solar module(s), Solar Controller-Power Plus with temperature sensor, roof spoiler set incl. accessories, roof grommet, adhesive set for spoiler set and roof grommet, cable set inside/outside, cable set for vehicles with EBL base station (Hymer Group), small parts, installation instructions.



Commercially available solar modules are equipped with 36 solar cells. With MultiCell solar modules from BÜTTNER ELEKTRONIK, the same Size 72 solar cells interconnected. As independent comparative tests prove (Reisemobil International 10/2012), BLACK LINE modules provide for more power in adverse weather conditions.

Complete systems

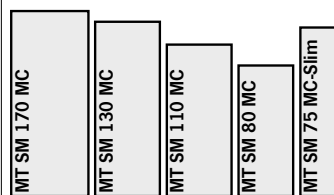
	MT 75 MC-S	MT 80 MC	MT 110 MC	MT 130 MC	MT 170 MC	MT 150-2 MC-S	MT 160-2 MC	MT 220-2 MC	MT 260-2 MC	MT 340-2 MC
Power (Wp):	75	80	110	130	170	150-2	160-2	220-2	260-2	340-2
Daily output (Wh/T):	300	320	440	520	680	600	640	880	1040	1360
Module count:	1	1	1	1	1	2 x 75 W	2 x 80 W	2 x 110 W	2 x 130 W	2 x 170 W
Size (WxDxH mm):	1470x335x66	1170x450x66	1335x530x66	1530x530x66	1600x660x66	2 x 1470x335x66	2 x 1170x450x66	2 x 1335x530x66	2 x 1530x530x66	2 x 1600x600x66
Item no.	85354	85355	85356	853014	853004	85357	85358	85359	853015	853005
Price	599,-	610,-	739,-	855,-	999,-	989,-	999,-	1405,-	1509,-	1896,-

Individual modules

	MT 75 MC-S	MT 80 MC	MT 110 MC	MT 130 MC	MT 170 MC
Rated power (Wp):	75	80	110	130	170
Daily output (Wh/T):	300	320	440	520	680
Open circuit voltage (V):	21,6	21,6	21,6	21,6	22,3
Weight:	5,6	7	9	13	13
Cell count:	72	72	72	72	72
Size (WxDxH mm):	1350x335x35	1050x450x35	1215x530x35	1410x530x35	1480x660x66
Item no.	85334	85339	85348	853013	853000
Price	387,-	396,-	489,-	599,-	795,-

Always the right module:

Roof box, satellite antenna, hatches and air conditioning: It can be a tight squeeze on the roof of smaller motorhomes. Fortunately, BÜTTNER ELEKTRONIK offers a whole range of different module formats - especially the MT SM 75 MC-S (=Slim) with a width of only 33.5 cm can often be the solution when space is at a premium.



*Please note: The TÜV approval refers exclusively to the bonding of the original MT retaining profiles made of PUR material with the MT bonding set, therefore neither other adhesives nor other mountings are permitted. The Büttner adhesive set can be found on the right side of the catalog.

MT CDS POWER LINE solar modules

• Optimal performance with partial shading

Unresponsive to partial shading than conventional solar modules. This results in a higher yield if, for example, branches or a SAT system partially shade the solar modules. CDS modules are equipped with 44 monocrystalline high-power cells and should always be used in combination with an MPP charge controller for optimum performance. A stable all-round aluminum frame protects the cells, which are completely embedded in special safety glass.

Equipment of the MT CDS POWER LINE complete solar systems:

Monocrystalline MT CDS POWER LINE solar module(s) MPP solar controller with temperature sensor, roof spoiler set including accessories, roof duct, Adhesive set for spoiler set and roof grommet, cable set inside/outside, cable set for vehicles with EBL base station (Hymer Group), small parts, assembly instructions.



MT CDS POWER LINE complete systems

	MT 130 CDS	MT 210 CDS	MT 260-2 CDS	MT 420-2 CDS
Power (Wp)	130	210	260	420
Number of modules	1	1	2 x 130 W	2 x 210 W
Size L x W x H (mm)	1449 x 530 x 66	1760 x 660 x 66	2 x 1449 x 530 x 66	2 x 1760 x 600 x 66
Item no.	853030	853031	853032	853033
Price	1129,-	1759,-	2119,-	2659,-

MT CIS POWER LINE single module

MT CDS POWER LINE single modules

	MT SM 65 CIS	MT SM 130 CDS	MT SM 210 CDS
Power (Wp)	65	130	210
Number of modules	1	1	1
Size L x W x H (mm)	905 x 600 x 33	1329 x 530 x 35	1640 x 660 x 35
Item no.	85347	853040	853041
Price	439,-	879,-	1179,-

MT POWER LINE solar complete system

- Complete sets with mounting accessories
- Extremely high efficiency
- 40 cells for more yield
- TÜV-tested adhesive set included
- With MPP solar controller

High performance on a small surface area - this is guaranteed by the MT-Power solar modules from BÜTTNER ELEKTRONIK. Only the MT POWER LINE series has 40 high-performance cells, which have a very high efficiency. A powerful MPP controller is used as the solar controller, including a second charging output (start battery) and connection option for a solar remote display (option). This always guarantees optimum yield - even in unfavorable weather conditions or partial shading.

Equipment of the MT POWER LINE solar complete systems: Monocrystalline MT POWER LINE solar module(s) MPP solar controller with temperature sensor, roof spoiler set including accessories, roof lead-through, adhesive set for spoiler set and roof lead-through, cable set inside/outside, cable set for vehicles with EBL base station (Hymer Group), small parts, installation instructions.



MT POWER LINE complete systems

	MT 90	MT 130	MT 210	MT 180-2	MT 260-2	MT 420-2
Power (Wp/Wh/day)	90/400	130/580	210/920	180/800	260/1160	420/1840
Number of modules	1	1	1	2 x 90 W	2 x 130 W	2 x 210 W
Size L x W x H (mm)	980 x 600 x 66	1449 x 530 x 66	1760 x 660 x 66	2 x 880 x 600 x 66	2 x 1449 x 530 x 66	2 x 1760 x 660 x 66
Item no.	853016	853006	853008	853017	853007	853009
Price	775,-	959,-	1264,-	1355,-	1795,-	2190,-

MT POWER LINE single modules

	MT SM 90	MT SM 130	MT SM 210
Power (Wp)	90	130	210
Power (Wh/day)	400	580	920
Size L x W x H (mm)	860 x 600 x 35	1329 x 530 x 35	1640 x 600 x 35
Item no.	853012	853001	853002
Price	560,-	745,-	948,-

MT Adhesive system for MT retaining profiles

MT holding profiles for gluing on Can be screwed to all solar modules with surrounding aluminum frame. They ensure optimum ventilation and are attached to vehicle roofs with the MT adhesive set - without drilling! - glued on. Made of UV-resistant, high-quality PUR.

Spoiler sets for 2 profiles

① MT SP 33 for module width up to ca. 33.5 cm*	85076	71,50
② MT SP 45 for module width up to ca. 45 cm*	850761	74,50
③ MT SP 53 for module width ca. up to 53 cm*	850762	84,90
④ MT SP 60 for module width ca. up to 60 cm*	850763	87,90
⑤ MT SP 64/65 for module width up to ca. 66 cm*	850764	91,90
⑥ Corner set MT EP 4 Corner profiles for 1 module*	850765	83,90
⑦ Connector set MT VP 2 Connector profiles*	850766	43,90



*Please note: The TÜV approval refers exclusively to the bonding of the original MT retaining profiles made of PUR material with the MT adhesive set, therefore neither other adhesives nor other mounts are approved. The Büttner adhesive set can be found on the right side of the catalog.

THE PRICE/PERFORMANCE WINNERS
Black MC-100 + Black MC-140 + Black MC-185
Solar complete sets

ALU
FRAME
BLACK

SAFETY-
GLASS

MONO
CELLS

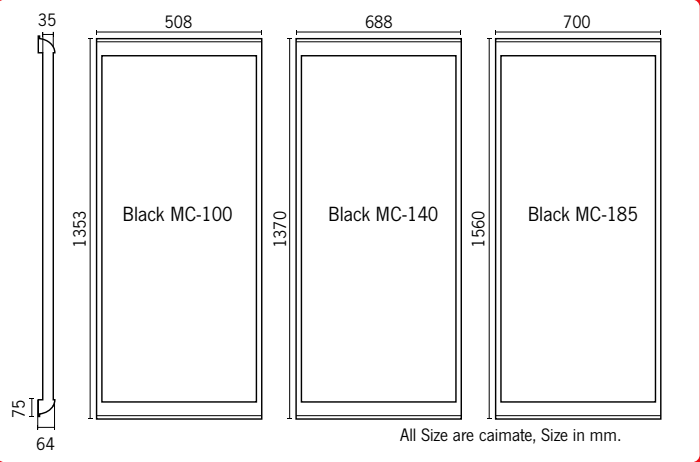
6 m
CABLE
2x 2,5
mm²

ALL SETS INCL.
BRACKET, CHARGE
CONTROLLER,
ROOF DUCT

- All components are optimally matched to each other
- Aluminum spoiler profile (black) already pre-installed
- 6 m cable (2x 2.5 mm²) pre-installed
- PWM solar charge controller with USB port (5 V, 1.2 A) for charging GEL, lead-acid, AGM batteries (battery type adjustable)
- All black design
- Performance Guarantee:
After 25 years still 80% performance



The Mc Camping solar complete sets in black design. The sets include a solar panel with pre-installed aluminum-Retaining profile (spoiler), pre-installed 6m solar cable, roof bushing and solar charge controller 12V, 10A or 12/24V, 20A. All components are optimally matched to each other and thus ensure reliable operation.



NEW
2023

100
WATT

140
WATT

185
WATT

REIMO
TOP PRICE
from 229,-

PWM solar controller
with USB port (5 V, 1.2 A)

	Solar Set Black MC-100	Solar Set Black MC-140	NEW Solar Set Black MC-185
Power / Cell type	100 W / monocrystalline cells	140 W / monocrystalline cells	185 W / monocrystalline cells
Efficiency	19,60%	20,70%	18,90%
Short circuit current (Isc)	6,00 A	8,40 A	11,00 A
Open circuit voltage (Voc)	21,6 V	21,6 V	21,6 V
Rated voltage (Vmp)	18 V	18 V	18 V
Rated current (Imp)	5,55 A	7,77 A	10,27 A
Operating temperature	-45°C ~ +80°C	-45°C ~ +80°C	-45°C ~ +80°C
Size solar panel incl. spoiler (L x W x H)	1353x508x35/64 mm	1370x688x35/64 mm	1560x700x35/64 mm
Cable (2x 2,5 mm ²) pre-installed	6 m	6 m	6 m
Weight	ca. 10 kg	ca. 12 kg	ca. 14 kg
Solar charge controller	LS1012EU: 12V, 10A, max. solar panel voltage 30V, 1x USB port 5V 1.2A		LS2024EU: 12V/24V, 20A, 1x USB port 5V 1.2A
Art. No.	84033	84034	840341
Price	229,-	299,-	444,-



**130
WATT**

**MONO
CELLS**

**ETFE
TOP-
AREA**

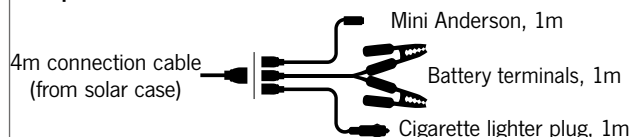
**BLACK
DESIGN**

**SOFT
POCKET**

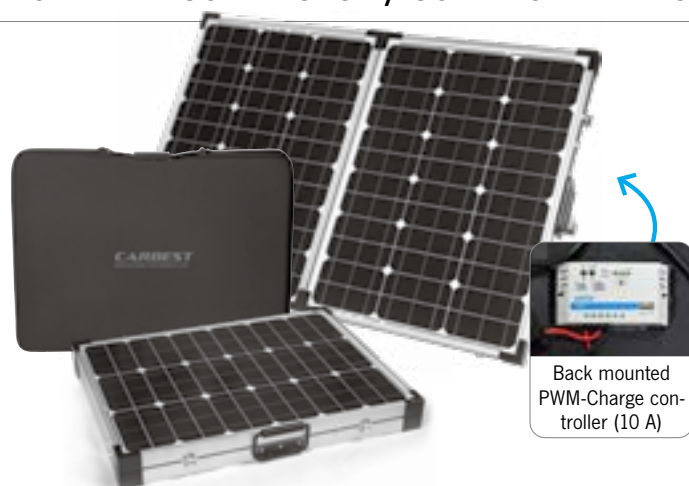
Foldable solar case set with 130W power

- 2 solar modules with 65 W power each
- High quality monocrystalline cells
- Robust ETFE surface
- PWM solar regulator (12 V, 10 A) for charging GEL, lead-acid, AGM batteries, with USB output (5 V, 1.2 A)
- Narrow aluminum frame with edge protection corners
- Incl. 3 adapter cables with high current connector (50 A): Alligator clips, Cigarette lighter plug, Mini Anderson (1 m each)
- Additional protective bag for storing the connection cables

Adapter cable included



Power	130 watt
Cell type	Monocrystalline cells
Rated voltage (Vmp)/rated current (Imp)	20.5 V /6.35 A
Open circuit voltage (Voc)	24 V
Short circuit current (Isc)	6,66 A
Max. System voltage (V)	100 VDC
Cell efficiency	22,70 %
USB charge output on solar controller	5 V/1.2 A
Size open in mm	1193x635x25
Size closed in mm	635x595x50
Color	Black
Weight ca.	7,5 kg
Item no.	82508
Price	449,--



**120
WATT**

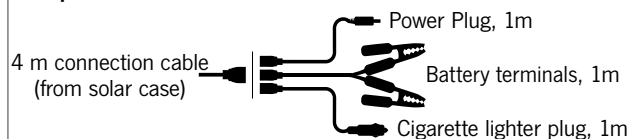
**SILVER
DESIGN**

**HART-
SHELLS-
CASE**

Solar case with 120 watt power

- Mobile charging of your 12 V battery
- Monocrystalline cells
- PWM solar regulator (12 V, 10 A) for charging GEL, lead-acid, AGM batteries
- Solar controller with USB output (5 V, 1.2 A)
- Incl. 3 adapter cables: alligator clips, cigarette lighter cable, power plug (1 m each)
- Retractable feet
- Includes sturdy hard case

Adapter cable included



Power	120 watt
Solar cells	Monocrystalline cells
Rated voltage (Vmp)/rated current (Imp)	19.1 V / 6.28 A
Efficiency	20,4 %
USB charge output on solar controller	5 V/1.2 A
Connection cable	4 + 1m
Size open in mm	1010 x 690 x 30
Size closed in mm	505 x 690 x 60
Color	Silver
Weight ca.	12 kg
Item no.	825030
Price	279,--

Connecting cable 50 cm

For direct connection of the Carbest solar case to the Carbest battery box Energy-Station 813740 (Page 976). Cable length 50 cm, 1x Solar connector (only suitable for Carbest solar case 825030 or folding panel 82507), 1x 50A high current battery connector.

850921

29,90



Mobile 13 W solar generator including energy box

- Energy box with 7 Ah battery including 2 separate charging cables
- Supplied with LED work light

With 12 V and USB port, charging cell phone and laptop is no problem. Packing size module: 520 x 390 mm, opened: 768 x 520 mm, weight: 4,75 kg, Size energy box: 28 x180 x100 mm, weight: 3,75 kg. Scope of delivery: solar panel, energy box, LED work light with cigarette lighter connection, charging cable with alligator clips, charging cable.

850205

124,--



FOLDABLE SOLAR MODULES / FLEXIBLE SOLAR MODULE



NEW
2023

615 mm2040 mm

Anschlüsse:

Batterieklammern
Mini Anderson
Zigaretten-Anzünder
Adapter 1 m
vom Panel 4 m



Integrated cable connection with 3 USB outputs

200 WATT

ETFE TOP-AREA

INCL. 20 A SOLAR CHARGE CONTROLLER

MONO-CRISTAL-LINE CELLS

SOFT POCKET

CARBEST
INNOVATIONS FOR MOBILE LIFE

Foldable solar panel set with 200 W power

- Fits on the windshield of most vans
- Shingle PERC solar cells (monocrystalline) for more power on the same area and less loss in case of partial shading
- PWM solar regulator (12/24 V, 20 A) for charging GEL, lead-acid, AGM batteries
- Solar controller with USB output (5 V, 1.2 A)
- Sewn-on pocket with integrated cable connector with 1x USB-A (5V/2A), 1x USB-QC 3.0 (12V/1.5A max.), 1x USB-C (20V/3A max.)
- Incl. 3 adapter cables with high current connector (50 A): Alligator clips, Cigarette lighter plug, Mini Anderson (1 m each)
- Additional protective bag for storing the connection cables

Power	200 watt
Cell type	Monocrystalline cells
Rated voltage (Vmp)/rated current (Imp)	19.4 V / 10.31 A
Open circuit voltage (Voc)	22,9 V
Short circuit current (Isc)	10,93 A
max. system voltage (V)	100 VDC
Cell efficiency	22 %
USB charge output on the charge controller	5 V/1.2 A
Size open in mm	2040x615x20
Size closed in mm	555x615x32
Weight incl. accessories ca.	8 kg
Item no.	82509
Price	649,-



135 WATT

ETFE TOP-AREA

MONO-CRISTAL-LINE CELLS

CARBEST
INNOVATIONS FOR MOBILE LIFE

Foldable solar panel set with 135 W power

- 36 powerful Sunpower cells
- PWM solar regulator (12 V, 10 A) for charging GEL, lead-acid, AGM batteries
- Solar controller with USB output (5 V, 1.2 A)
- Including 3 adapter cables: alligator clips, cigarette lighter cable, power plug (each 1m long)
- High quality ETFE surface

Rear mounted PWM solar controller with USB output



Anschlüsse:

Batterieklammern
Power Plug
Zigaretten-Anzünder
Adapter 1 m
vom Panel 4 m

1462 mm560 mm

Foldable solar panel set with 135 W power

- 36 powerful Sunpower cells
- PWM solar regulator (12 V, 10 A) for charging GEL, lead-acid, AGM batteries
- Solar controller with USB output (5 V, 1.2 A)
- Including 3 adapter cables: alligator clips, cigarette lighter cable, power plug (each 1m long)
- High quality ETFE surface

Includes 3 connection adapters with alligator clips, plug for cigarette lighter socket and 12 V power supply plug (e.g. for EFOY GO). Adapter cables can be stowed in the attached pocket.

Power	135 watt
Rated voltage (Vmp)/rated current (Imp)	22.32V /6.05 A
Solar cells	Sunpower cells
Efficiency	24,40 %
USB charging output	5 V/1.2 A
Connection cable	4 + 1m
Size open in mm	1462x560x20
Size closed in mm	560x440x40
Color	Black/Blue
Weight	3,8 kg
Item no.	82507
Price	395,-

Accessories for foldable solar panel 82507
Connection cable 50 cm

For direct connection of the Carbest solar case to the Carbest battery box Energy-Station 813740 (Page 976). Cable length 50 cm, 1x solar connector (only suitable for Carbest solar case 825030 or folding panel 82507), 1x 50 A high current battery connector.

850921 29,90



①

②

Solar module + MPPT Charge controller

solar**swiss**

Foldable single solar panel and solar set 190 W

- Small pack size, mobile use, thermal resistance
- High efficiency solar cells for maximum power
- With stiffened carrier plate and 6 m solar cable

① **Foldable solar panel, 190 watts**
Folded: L x W x H 580 x 708 x 40 mm. Unfolded: L x W x H 1645 x 708x 10 mm.
Weight ca. 7.5 kg. **840203 609,-**

② **Foldable solar module complete set, 190 Watt** 190 W module (840203) + Victron MPPT solar charge controller **840204 769,-**

954 ELECTRIC

Foldable solar panel MT SM 120 TL

- Foldable and space saving
- Incorporated eyelets and magnets facilitate attachment
- Including solar controller Travel Line (for different 12 V batteries)
- 10 m long connection cable

Designed for touring vehicles and specially protected by a highly stable back material, sewn into a tarpaulin fabric from the boat sector. Industrial magnets sewn into the fabric provide grip, for example on the roof of a van. Eyelets are provided for further fastening options. The charge controller is integrated in the connection cable and can be adjusted to the respective battery type (wet; AGM; gel).

	MT SM 120 TL
Power (Wp)	120
Weight	5,7 kg
Size open	1106 x 850 mm
Size folded	1106 x 420 mm
Item no.	852931
Price	1295,-



Single modules and complete systems MT FLAT LIGHT

- Low installation height, modules can be walked on
- High performance cells suitable for all climates
- PP solar regulator for AGM, Gel, Acid and LiFePO4 batteries with second charge output (for starter battery)
- To be bonded to motorhome roofs without under ventilation
- Connection to EBL possible
- Now also in square design

The FLAT LIGHT modules are absolute high-end products. They can be glued flat on slightly curved roofs and can be walked on. The roof duct is pressure water tight. The solar controller is equipped with a temperature sensor for the on-board battery and a connection for a solar remote display (page 935). For vehicles with EBL, an adapter cable is included for connection. Now also available as a square design, which can be used especially where space is limited.

Individual modules

MT SM-120 FL	MT 150 FL	MT 170 FLQ
120	150	170
1	1	1
yes	yes	yes
1 x	1 x	1 x
1120 x 540	1380 x 540	980 x 980
853066	853067	853068
866,-	1050,-	1080,-

Complete systems

	MT 120 FL	MT 150 FL	MT 170 FLQ	MT 240-2 FL	MT 300-2 FL	MT 300-2 FLQ	MT 340-2 FLQ
Power (Wp)	120	150	170	240	300	300	340
Modules	1	1	1	2 x 120 W	2 x 150 W	2 x 150 W	2 x 170 W
Bendable	yes	yes	yes	yes	yes	yes	yes
Size mm	1 x 1120x540	1 x 1380x540	1 x 980x980	2 x 1120x540	2 x 1380x540	2 x 980x980	2 x 980x980
Item no.	853060	853061	853062	853063	853064	85396	853065
Price	1090,-	1279,-	1340,-	1984,-	2399,-	2289,-	2499,-



Complete systems

Individual modules



MT Solar Remote Displays

- MT Solar remote display I shows via LEDs the current power of the solar system stepwise in percent (10 - 100 %). With 5 m connection cable. Color: Silver; Size (H x W x D): 85 x 45 x 20 mm **85114 89,-**
- MT Solar Remote Display II. Displayed are: Charging current (A), system voltage (V), charging function, solar power, time and date. The current counting function (Ah and Wh) can be used to read how much capacity has been transferred to the battery. Switching output for free programming. With 5 m connection cable. Size (H x W x D): 85 x 80 x 20 mm.
Color: Silver **85115 109,-**
Color: Black **851151 119,-**
- MT iQ-SolarPRO incl. Hall sensor. Display of charge current, voltage, solar power and a resettable current counting function. Color: Black. **810240 245,-**
- Surface-mount housing for MT solar remote display II, Size (H x W x D): 87 x 83 x 27 mm
Color: silver **85113 29,-**
Color: Black **851131 29,-**
Extension cable to display I and II, length: 5 m (not shown) **E1460 13,70**



BÜTTNER
→ DOMETIC

These remote displays can only be used with BÜTTNER ELEKTRONIK solar controllers!

SOLAR MOUNTING / SOLAR CONNECTOR / SOLAR CABLE



CARBEST
INNOVATIONS FOR MOBILE LIFE

Aluminum spoiler profile

- 2 pieces, can be shortened as needed
- Fastening by gluing and/or screwing
- Suitable for Carbest solar modules
- Scope of delivery: extruded profile, plastic caps, self-tapping screws, assembly instructions

Aluminum spoiler profile 410 mm (suitable for Carbest module 852382/852387)

Color white 850900 49,95

Aluminum spoiler profile 550 mm (suitable for all Carbest modules with a width of 545 mm)

Color white 850906 56,90

Color black 850909 56,90

NEW: Aluminum spoiler profile 840 mm (suitable for Carbest module 852393)

Color black 850911 69,90



Solar module holder with cable gland

- Individual use (camper, caravan, flat roof)
- Extremely resilient (TÜV-tested safety)
- Low weight: ca. 88 g per piece
- Aging resistant high performance plastic
- Centering grooves as mounting aid
- Aerodynamic design

4 x solar module holder

(1 x cable aperture M16, for a module weight up to max. 7 kg) 85169 50,95

Supplementary set with 2 holders (1 x cable aperture M16)

85171 26,95



For bonding aluminum panels or holders.
For ABS plastics, please use activator.

Adhesive for solar and satellite systems

DEKAsyl Power Adhesive 100 ml, white Bonding of polyester parts to metal, as well as of corner profiles made of aluminum or polyester to metal frames (Sufficient for a solar panel or a satellite system)

GP* 122,50 / 1l

50067 12,25

For ABS plastics (e.g. solar corner profile) please also order activator: Dekavator 30 ml bottle for priming and strengthening adhesion of ABS plastics.

GP* 563,33 / 1l

50069 16,90

BÜTTNER

→DOMETIC



MT bonding set for solar systems

Includes everything needed to attach the MT retaining profiles to the solar module and to bond the profiles:- Sika® Primer-210, Sika® Activator-205, Sikaflex®, stainless steel screws, abrasive fleece, bonding instructions.

MT bonding set I for 1 module 85074 73,50

MT bonding set II for 2 modules 850741 80,90

Hazard: H225, H319, H334, H317, H336



CARBEST
INNOVATIONS FOR MOBILE LIFE

Corner profile set of 4

Made of ABS plastic, 150/150 mm, 4 pieces in a set

85162 35,-

4
PIECE



CARBEST
INNOVATIONS FOR MOBILE LIFE

Connection set

Made of ABS plastic, 180 mm, for connecting solar modules, 2 pieces in a set

85163 21,-

2
PIECE



Bead filler set box van

Compensates for the profiled roof surface on the Fiat Ducato panel van. This provides a continuous bonding surface for MT mounting profiles and FLAT LIGHT solar modules. The bead fillers are inserted into the recesses and glued in place with Sikaflex.

85261 21,-



MC4 solar plug set

Special plug set for single-core cables 2.5 - 6mm². With snap-in locking. Set consisting of: 1 x male and 1 x female.

Technical data:

Protection class: unplugged IP2X, plugged IP67. Temperature range -40° to 90° C

Voltage up to max. 1000 V. Current up to max. 30 A

84052 4,95

Solar cable 10 meters



UV, ozone and weather resistant 2-core cable. For connecting module and solar controller. 10 m.

2 x 2.5 mm² up to 160 W module power

GP* 3,90/1 m 85073 38,95

2 x 4.0 mm² from 160 W module power

GP* 5,90/0 m 850732 58,95

GP* = base price per specified unit

CARBEST
INNOVATIONS FOR MOBILE LIFE

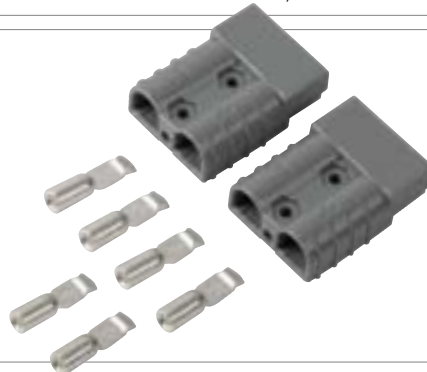
50 A High Current Battery Connector Set

2-pole unisex (genderless) connector that can be used as both male and female. Current max. 50A, Including 6 receptacles for the following cable cross sections: 2x 4-6 mm², 2x 5-10 mm², 2x 8-16 mm²

Size: L 48 mm, W 35 mm, H 15.9 mm

Scope of delivery: 2 x connectors (set), 6 x crimp contacts

850920 7,95



CARBEST
INNOVATIONS FOR MOBILE LIFE

Protective cover incl. cap for 50 A high current battery connector

Protects the connector from dust, Dirt and splash water

811215 2,90



NEW
2023

SCANSTRUT
 outdoor technologies

- Extremely high quality maritime finishes (seawater resistant)
- Split seal, therefore trouble-free connector feed-through
- Different sizes for perfect fit of the cables
- Noble look and shapely design
- Can be used as wall or roof diffuser
- Protection class IP 68 (waterproof, dustproof)
- Also without perforation for individual self-drilling

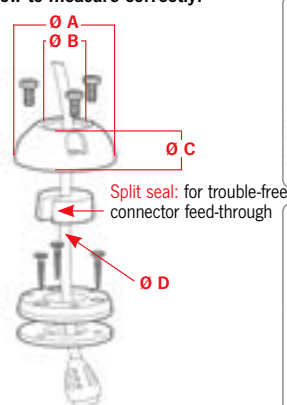
Professional roof penetrations

Made of high-quality stainless steel or glass-fiber-reinforced plastic (nylon, particularly impact-resistant). Extremely robust construction. They can withstand even the harshest conditions, such as storms and salt water. The manufacturer promises 100% tightness with professional installation. The split seal ensures a problem-free plug feed-through. Alternatively, they also receive undrilled seals to customize them themselves. Well proven with high quality, made of plastic or stainless steel.

	A Width Ø in mm	B Opening max. Ø in mm	C Height mm	D Cable Ø in mm	Material	Item no.	Price
① DS-H6	30	N/A	17,0	2 - 6	Plastic	85241	23,70
② DS16	39	16	19,0	2 - 8	Kst. gray	85140	28,68
③ DS16	39	16	19,0	2 - 8	Kst. schw.	85257	28,70
④ DS16	39	16	19,0	2 - 8	Stainless steel	85160	55,39
⑤ DS-H10	43	10	28	6 - 10	Kst. gray	851405	33,70
⑥ DS-H10	43	10	28	6 - 10	Kst. schw.	85258	33,70
⑦ DS-HD6	54	2x 5-6	22	5 - 6	Kst. schw.	851406	35,95

**Premium
Marine quality**


How to measure correctly:


INDEX
 MARINE


	A Width Ø in mm	B Opening max. Ø in mm	C Height mm	D Cable Ø in mm	Material	Item no.	Price
① DG8P	35	10	12	2,5 - 6	Plastic	85192	10,90
② DG21P	49	25	19	4,5 - 9	Plastic	85194	21,95
③ SE1P	ca. 50 x 70	8	-	2 - 8	Plastic	85200	13,95
③ SE6P	ca. 55 x 75	12	-	10 - 12	Plastic	85201	19,95
④ DK2	ca. 63 x 82	6	-	2x3x6	Plastic	85202	22,95

CARBEST
 INNOVATIONS FOR MOBILE LIFE


Roof cable glands

For safe cable routing through roofs or walls. Small, compact, waterproof. For gluing on with Sikaflex incl. PG 13.5 cable gland for cable Ø 6-12 mm.

① White, 1-fold (L 12,0 x D 6,5 x H 3,8 cm)	85049	10,95
② Black, 1-fold (L 12,0 x D 6,5 x H 3,8 cm)	850493	10,95
③ White, 2-fold (L 12,4 x D 9,3 x H 3,8cm)	850491	12,95
④ Black, 2-fold (L 12,4 x D 9,3 x H 3,8 cm)	850494	12,95

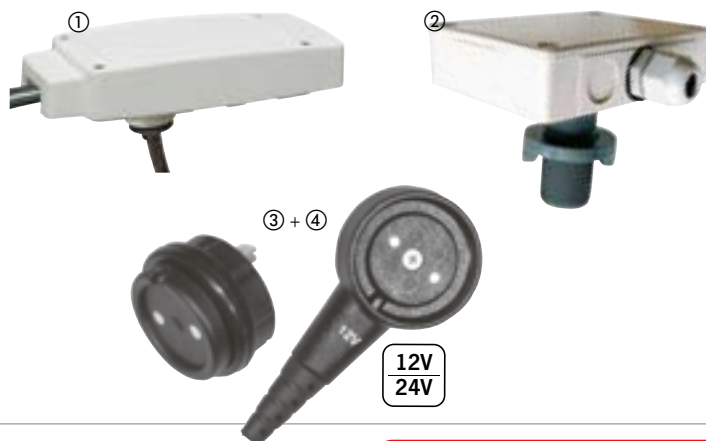
Special cable glands

- ① **Roof bushing HDZ 100** To accommodate a maximum of 3 cables up to Ø 7 mm. Roof grommet Ø 38 mm. Size: 211 x 90 x 37 mm **491922 29,90**
- ② **Cable entry box** max. you can connect 3 solar modules waterproof in connection with connection cable (85071). Maximum roof thickness 60 mm. **85072 27,80**

Magnetic 12/24V plug system

The power connection with detachable magnet connector. Port and clip form a simple but safe system to lead an electrical connection e.g. from the motorhome to the vehicle roof. Ideal for connecting solar panels. The current flows only when both contacts are brought together. Max. 25 A. Port: flat plug 6.3 mm, clip: screwable. Size: Ø 28 mm, D 25 mm.

③ Port	81002	20,80
④ Clip	810021	23,95



MPPT SOLAR CHARGE CONTROLLER

Note: For a solar panel with an input voltage >30V, we recommend an MPPT charge controller.

CARBEST
INNOVATIONS FOR MOBILE LIFE



Bluetooth-enabled MPPT charge controller, data display via app or separate monitor

- Bluetooth function only in conjunction with the 851007 Bluetooth module (free app for Android and iOS)
- Battery type adjustable: GEL, lead-acid, AGM, LiFePO4 batteries
- Two battery outputs
- Max. Input voltage is 50V

① Charge controller 12V/12A/max. 165W	851005	69,90
① Charge controller 12V/25A/max. 350W	851006	99,90
② Bluetooth module with 3m cable	851007	34,90
③ Separate solar monitor, consisting of solar monitor, mounting frame and 5m cable with connector. Size monitor: WxH 9,5x9,5 cm. Size mounting frame: WxH 11x11 cm.	851008	69,95
Temperature sensor with 3m cable (without fig.)	851004	8,20

CBE
ELECTRONICS FOR CARAVANNING AND BOATING

MPPT charge controller PRM 350

The PRM 350 charge controller automatically charges 12V lead, gel, AGM and lithium batteries by controlling and limiting the energy supplied by the connected solar panel. The integrated MPPT system (Maximum Power Point Tracker) extracts the maximum deliverable power from the solar panel in any situation. Suitable for solar modules with 32 to 72 cells and a maximum power of 350W. Integrated LED status display. Voltage: 12V, max. output current: 20A. Charging code: IUoU. Size: WxDxH 150x110x48 mm. Weight: 0.25 kg.



851451 272,-

CARBEST
INNOVATIONS FOR MOBILE LIFE

MPPT charge controller

- 12 V/16 A/max. 270 W
 - Battery type adjustable
 - For gel, AGM, acid, LiFePO4
- 2 solar modules can be connected, 4-stage charging curve, integrated desulfator. Outputs for 2 batteries, with LED charge indicator lights. Max. Input voltage 40 V. Size: LxWxH 105x85x50mm

851320 84,95

NDS DOMETIC



MPPT charge controller SunControl 2
12 V/320 W, for gel, AGM, acid or LiFePO4 batteries. 5-phase charging curve, input for 2 solar panels, additional output for the starter battery. LED charge indicator. Fuse protection: 25 A. Max. Charging current 25 A. Size: L 151 x W 90 x H 48 mm

851308 156,-

LIPPERT



① **MPPT solar controller LRM 1218 270WP** clocked converter that ensures that the connected solar modules are always operated optimally, regardless of solar radiation, battery voltage and module temperature, while the battery is in the main charging phase. Incl temperature sensor for battery monitoring. Size: 148 x 95 x 55 mm

800724 378,-

② **LT 320 Solar control panel** is connected directly to a Schaudt solar controller. Features: Display of the solar charging current of the living room or starter battery, LED display only active when queried, suitable for solar controller Schaudt LRS1214, LR1218, LRM1218, delivery includes connection material.

80238 184,-

PWM SOLAR CHARGE CONTROLLER



CARBEST
INNOVATIONS FOR MOBILE LIFE

Solar charge controller 12V/24V - 15 A. Optical capacity indicator. Reliable and inexpensive charge controller for solar systems up to 360 watts charging power.

85135 34,90

CBE
ELECTRONICS FOR CARAVANNING AND BOATING

① Solar controller PRS 300

- 300 Wp in shunt technology
- Parallel connection of several solar modules possible
- Desulphation function, which is automatically switched on when the battery is connected battery this requires (memory effect)

Suitable up to a power of 300 watts. The charge controller works together with the PT 642/G test panel and displays the state of charge in volts and amps. Selectable charging characteristics for lead-acid, gel and AGM batteries. LED operating status indicator. Maintenance phase at constant voltage. Integrated reverse polarity protection. Protection against overcharge and deep discharge. Switches off automatically when the charging current is insufficient. **Technical data:** Turns off at 14.3 volts and turns on again at 13.8 volts. Intrinsic consumption: 1mA. Short circuit and reverse polarity protection. Size: L115 x W88 x D37 mm.

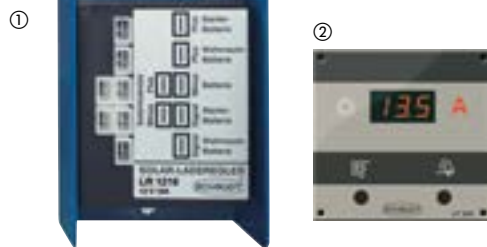
85145 101,-

② Solar test panel PT 642/G

Display unit for the exact display of the battery voltage (V) and the solar charging current (A) flowing from the solar cell to the battery. Incl. 2 m connection cable. Suitable for socket series PRESTO. Only for connection to solar charge controller PRS 300. Color: gray (RAL 7015)

85144 90,-

LIPPERT



Solar charge controller - can be combined with electric block EBL

- Shunt technology up to 240 watts
- Parallel connection of several solar modules possible
- Charging programs for lead-acid, AGM and gel batteries
- Display panel "LT 320 Solar" connectable

① **Schaudt solar charge controller LR 1218 240 Wp** for solar modules up to 240 W. Simultaneous charging of starter and on-board battery. Operation as normal charge controller or in combination with Schaudt electric block possible. Suitable for solar modules with a total current of 14 A (240 W) and lead-acid, AGM and lead-gel batteries. End-of-charge voltage living area battery 14.2 V, starter battery 13.8 V. Size: 110 x 75 x 56 mm, weight: 160 g

85059 125,-

Cable bridge to solar controller LR1218 for direct connection to Schaudt electric block (not shown)

851304 13,90

② **LT 320 Solar control panel** is connected directly to a Schaudt solar controller. Features: Display of the solar charging current of the living room or starter battery, LED display only active when queried, suitable for solar controller Schaudt LRS1214, LR1218, LRM1218, delivery includes connection material.

80238 184,-

SR solar controller - Effective battery charging

- 2. Output for starter battery
- Charging programs for all battery types (also lithium)
- Operating display with LEDs
- Temperature sensor (optional) connectable
- All controllers can be connected to solar computers (also to Schaudt EBL*)



	CARBEST					
Type	SR 140 Duo Digital	SR 220 Duo Digital	SR 243 Duo Digital	SR 300-24 Duo Digital	SR 330 Duo Digital	SR 530 Duo Digital
Volt	12 V	12 V	12 V	24 V	12 V	12 V
Solar module power min./max.	30-140 Wp	40-220 Wp	30-243 Wp	50-300 Wp	50-330 Wp	50-530 Wp
Max. Solar module voltage /current	28 V / 9 A	28 V / 14 A	28 V / 15 A	50 V / 10 A	28 V / 21 A	28 V / 33 A
Charge current max. (Batt.1/2)	9 A / 10.8 A	14.0 A / 0.8 A	14.7 A / 0.8 A	10.0 A / 0.8 A	21.0 A / 1.5 A	33.0 A / 1.5 A
Switching output AES refrigerator	-	-	-	-	yes	yes
Connection to EBL optional	yes	yes (with 851304)	yes (with 851304)	-	yes (with 851304)	yes (with 851304)
Size (W x D x H)	131x77x40 mm	131x77x40 mm	131x77x40 mm	131x77x40 mm	131x77x40 mm	131x77x40 mm
Weight ca.	150 g	155 g	155 g	150 g	165 g	170 g
Art. No.	851312	851381	85138	851300	851311	851306
Price	80,50	80,40	86,-	124,-	113,-	168,-



New generation of Votronic SR solar controllers

- Extended power and charging capability, but without charging program for lithium batteries (Votronic recommends only MPPT solar controllers for LiFePO4 batteries)

Type	SR 150 Duo Digital	SR 230 Duo Digital	SR 300-24 Duo Digital	SR 350 Duo Digital	SR 550 Duo Digital
Volt	12 V	12 V	24 V	12 V	12 V
Solar module power min./max.	30-150 Wp	30-230 Wp	50-300 Wp	50-350 Wp	50-550 Wp
Max. Solar module voltage /current	28 V / 9 A	28 V / 15 A	50 V / 10 A	28 V / 21 A	28 V / 33 A
Charge current max. (Batt.1/2)	9 A / 10.8 A	14.7 A / 0.8 A	10.0 A / 0.8 A	21.0 A / 1.5 A	33.0 A / 1.5 A
Switching output AES refrigerator	-	-	-	yes	yes
Connection to EBL optional	jaw	yes (with 851304)	-	yes (with 851304)	yes (with 851304)
Size (W x D x H)	131x77x40 mm	131x77x40 mm	131x77x40 mm	131x77x40 mm	131x77x40 mm
Weight ca.	150 g	155 g	150 g	165 g	170 g
Art. No.	851313	851314	851315	851316	851317
Price	92,-	105,-	139,-	125,-	183,-

MPP solar controller - Up to 30% more charging power

- Charging programs for all battery types (also lithium)
- Connection for EBL (from MPP 250 with AES switching output)
- Connection for solar computer and temperature sensor

Solar charge controller in MPPT technology: Optimal energy yield due to 10-30% higher charging current. A microprocessor uses the maximum power point (MPP) of the solar module and determines the maximum power output of the solar system. It transforms the excess voltage into a higher charging current for the battery. Particularly high-quality components reduce losses to a minimum.



Up to 30% higher energy yield
Ideal for high power modules

Type	① MPP 165 Duo Digital	② MPP 250 Duo Digital	③ MPP 350 Duo Digital	④ MPP 430 Duo Digital
Volt	12 V	12 V	12 V	12 V
Solar module power min./max.	40-165 Wp	40-250 Wp	50-350 Wp	50-430 Wp
Max. Solar module voltage /current	50 V / 10 A	50 V / 15 A	50 V / 21 A	50 V / 26 A
Charge current max. (Batt.1/2)	12 A / 1.0 A	18 A / 1.0 A	25.5 A / 1.0 A	31.5 A / 1.0 A
Size (W x D x H)	131x77x40 mm	131x77x40 mm	131x77x40 mm	131x77x40 mm
Weight ca.	190 g	210 g	250 g	260 g
Art. No.	850213	850292	850293	850294
Price	144,-	213,-	219,-	259,-



New generation of Votronic MPP solar controllers

- Extended power and charging capability, with charging characteristic for lithium batteries
- Integrated CI bus interface

Type	① MPP 170 CI	② MPP 260 CI	③ MPP 360 CI	④ MPP 440 CI
Volt	12 V	12 V	12 V	12 V
Solar module power min./max.	40-170 Wp	40-260 Wp	40-360 Wp	40-440 Wp
Max. Solar module voltage /current	60 V / 10.5 A	60 V / 16.0 A	60 V / 22.0 A	60 V / 26.5 A
Charge current max. (Batt.1/2)	12,5 A	18,5 A	26,5 A	32,0 A
Size (W x D x H)	131x77x40 mm	131x77x40 mm	131x77x40 mm	131x77x40 mm
Weight ca.	271 g	276 g	334 g	334 g
Art. No.	850214	850215	850216	850217
Price	141,-	204,-	233,-	317,-

Temperature sensor for all solar controllers for charge optimization. Recommended for gel and AGM batteries.

*EBL cable set (not shown) for connecting the charge controllers to a Schaudt EBL electric block.

80181
851304

21,70
13,90





Deine Freiheit. Dein Strom.



EFOY Fuel Cells - Clean Power Anytime, Anywhere

The EFOY fuel cell is the power generator for on the go. It produces electricity in a chemical reaction and thus charges the on-board battery. This is done fully automatically and quietly, so you can enjoy your free time. 230 V devices can also be used via an inverter. The EFOY fuel cell is compatible with all common battery models. SFC recommends the EFOY lithium battery for a long service life.

Control via EFOY app or control panel

You can control your EFOY products easily via the EFOY app from your smartphone or tablet. Download now for free.

The high-quality and user-friendly control panel is mounted inside your motorhome. Optionally available.



Fuel cell	EFOY 80	EFOY 150	EFOY Pro 2800 BT
Maximum power	40 W	75 W	125 W
Max. Charging capacity/day at 12 V	80 Ah	150 Ah	250 Ah
Rated voltage	12 V / 24 V	12 V / 24 V	12 V / 24 V
Size (LxWxH)	440 x 198 x 271 mm	440 x 198 x 271 mm	448 x 198 x 275 mm
Weight	6,5 kg	6,9 kg	7,8 kg
Item no.	72243	72244	72245
Price	3199,-	5099,-	8345,-

Original EFOY Accessories	Item no.	Price
Control panel OP3 Set	722436	549,-
Service Fluid	722393	9,55
Mounting Plate MP3 Set	722437	49,95



The fuel cartridge

Independent of the power grid for weeks. EFOY fuel cartridges are a safety-tested tank system specially developed for EFOY fuel cells. EFOY fuel cartridges can be changed in seconds - easily and cleanly. With an M10 fuel cartridge you are independent of the power outlet for several weeks. You can find the Europe-wide dealer network on our website or via app.

Fuel cartridge	M5	M10
Nominal capacity	5.5 kWh / 460 Ah	11.1 kWh / 925 Ah
Volume	5 liters	10 liters
Item no.	72221	722210
Price	43,-	63,-



Methanol is classified as a toxic and highly flammable substance according to the CLP regulation. For further information, please refer to the safety data sheet. Distribution exclusively through specialized trade - no shipping. Danger: H225, H301, H311, H331, H319, H360, H370, H336

Honda power generators - The lightest power generators in their class

HONDA
POWER EQUIPMENT

- Very quiet due to fully enclosed housing
- Generators meet the world's most stringent emissions standard from California (CARB-California Air Resources Board)
- Intelligent engine management enables run times of up to 10 hours on one tank of fuel (EU 20i)
- Particularly easy startup thanks to state-of-the-art technology

① Gasoline generator EU 10i - 1.0 kW

Ideal for battery charging 1000 VA generator power. Perfect frequency and voltage stability due to inverter technology. Running time depends on the connected device; very quiet due to full encapsulation.

Technical data: Power 1 kVA, continuous power 0.9 kVA, voltage/frequency 230 V/50 Hz, voltage regulation inverter, 4-stroke engine, OHV, 1 cylinder, pull-start (easy start), DC output 12 V/ 8.3 A charging current, tank capacity ca. 2.3 liters, running time with one filling 4.5 - 8 h, sound power 83-87 dB(A), noise level at 7 m distance 52- 57 dB(A), weight: 13 kg, L 450 x W 240 x H 380 mm, parallel operation: 4, eco circuit: 4, 1 x Schuko socket. Order charging cable separately: Art. No. 912941 (manufacturer's specifications not binding) Regular gasoline.

91297 1199,-

② Gasoline generator EU 22i - 2.0 kW

Inverter technology with 2.2 kVA power, e.g. for common air conditioning systems in motorhomes. Parallel connection of two EU 22i possible. Cable starter.

Technical data: Max. Power 2.2 kVA, continuous power 1.8 kVA, voltage/frequency 230 V/50 Hz, voltage regulation inverter, 4-stroke engine, OHV, 1 cylinder, GXR120, pull-start, DC output 12 V: 8 A charging current, tank capacity ca. 3.6 liters, running time with one filling: 3.5-9 h, sound power 71-89 dB(A), noise level at 7 m distance 58 dB(A), weight: 21 kg, L 512 x W 290 x H 425 mm, parallel operation: 2, eco circuit: 4, 2 x Schuko sockets. Order charging cable separately: Art. No. 912941 (manufacturer's specifications not binding)

Regular gasoline.

913030 2050,-

- ③ 230 V relay against backfeed into the public grid with permanently connected generators

91288 137,-

- ④ Battery charge controller AG 111 12 Volt. Prevents accidental overloading of batteries during prolonged operation.

91287 189,-

- ⑤ Charging cable for all devices with charging facility (EX 7, EU 10i, EU 30iS)

912941 29,95

Parallel cable for parallel connection of several generators (o. Fig.)

EU10i 91294 55,95

EU22i 912944 419,95



Applies to all
Honda generators

Maximum power or continuous power? Only for applications where the power decrease is permanent (e.g. longer than 30 min), a continuous power must be used as a basis. For all other applications, the maximum power can be used. However, it is best to calculate with 20% reserve.

Installation instructions: When installing generators not specifically designed for installation, a suitable stowage box must be provided that is adequately ventilated. Power generator is to be fixed inside the stowage box. The exhaust gas hose, which is available as an accessory, can be used for the exhaust gas routing.

DOMETIC OUTDOOR

Dometic Perfect Power PLB 40 Portable Lithium Battery 40 Ah (512 Wh)

- Flexible connection and charging options
- Strong performance

50% lighter than comparable lead-acid batteries thanks to lithium iron phosphate cells (LiFePo4). Allows cooling time of up to 40 hours and more with a CFX 40 W cooler. Powers small electrical appliances and electric coolers via USB (5 V) and cigarette lighter (12 V). Aufladbar via 12 V DC cigarette lighter, solar panel or the compact power supply.

81420

860,-



LithPowerUnit 48

- LiFePO4
BATTERY
- 614 Wh
- 32Ah
(19,2 V)
48 Ah
(12,8 V)
- SINE WAVE
INVERTER
500 W
- MPPT-
SOLAR-
CONTROL-
LER
- BATTERY
MANAGE-
MENT
SYSTEM
- LCD-
DISPLAY
- WEARA-
BLE
- ROBUST
HOUSING



- ① Charging input for solar modules
- ② 12 V cigarette lighter connector
- ③ 2x 12 V (5.5 mm)
- ④ LCD display
- ⑤ 2x USB (5V/3.1 A)
- ⑥ 1x USB QC (5-20 V/max. 18 W)
- ⑦ 1x USB-C (5-20 V/max. 60 W)
- ⑧ 2x 230V power socket



12 V cigarette lighter connector



2x 230 V sockets



USB-C port

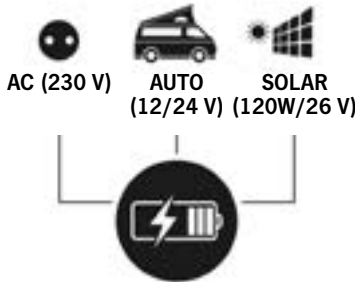


3x USB port

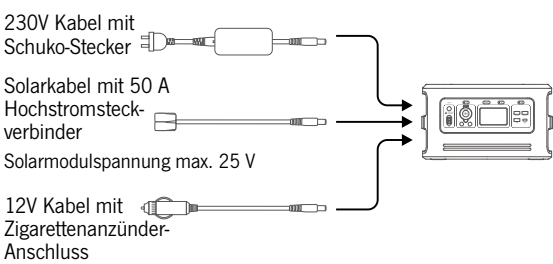
- Rechargeable via different sources
- Wide range of connection options for various end users
- Small, handy, mobile use
- Perfect for outdoor activities of all kinds

LiFePO4 battery with BMS	32 Ah (19.2 V), 48 Ah (12.8 V), 614 Wh
Integrated sine wave inverter	500 W (max. 1000 W short-term)
Integrated solar charge controller	MPPT
Connection options	2x 230 V socket (on the back) 2x 12 V 5.5 mm (5 A, max. 60 W) 1x 12 V cigarette lighter socket (10 A, max. 120 W) 2x USB (5 V/3.1 A) 1x USB QC (5-20 A, max. 18 W) 1x USB-C (5-20 A, max. 60 W)
Rechargeable via	230 V mains via charger 12 V vehicle electrical system Solar (solar module voltage max. 25 V)
Size LxWxH ca.	324x198x186/254 mm
Weight	8 kg
Art.No.	814135
Price	639,-

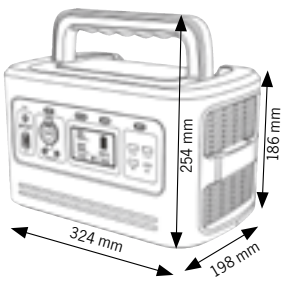
Rechargeable via



Scope of delivery



Size



CARBEST
 INNOVATIONS FOR MOBILE LIFE

LithPowerUnit 80

80 Ah
LiFePO4
BATTERY
SINE WAVE
INVERTER
1000 W
MPPT-
SOLAR-
CONTROL-
LER
BATTERY
MANAGE-
MENT
SYSTEM
LCD-
DISPLAY
WEARA-
BLE
ROBUST
HOUSING
OFF ABS


LiFePO4 battery with BMS	80 Ah (12.8 V), 1024 Wh
Integrated sine wave inverter	1000 W (max. 2000 W short-term)
Integrated MPPT solar charge controller	15 A (max. 200 W)
Connection options	① 1x 230 V socket ② 2x 12 V cigarette lighter socket ③ 2x USB port (5 V/3.1 A) ④ 4x Anderson connection (50 A) ⑤ 1x Anderson connection (175 A)
Rechargeable via	230 V mains via charger Solar (solar module voltage max. 50 V)
Size LxWxH / Weight	455x250x330 mm / ca. 15 kg
Art.No. Price	814136 1199,-



Scope of delivery:

① LithPowerUnit 80, ② Mains charger (Input: 200-240 V / Output: 14.6 V, 20 A), ③ Jumper cable (2 m, cable Ø 16 mm²) with 1 x 175 A Anderson plug and battery crocodile clips, ④ Solar cable (1.5 m, cable Ø 6 mm²) with 2 x 50 A Anderson plugs, ⑤ Universal cable (1.5 m, cable Ø 6 mm²) with 1 x 50 A Anderson plug and 1x open cable end, ⑥ 50 A Anderson plug incl. 2x crimp contacts (for cable Ø 6 mm²), ⑦ Different cover caps for the Anderson connectors, ⑧ Mounting material (incl. 2 x lashing eyes and 1 x tensioning strap), operating instructions (not shown)

CARBEST
 INNOVATIONS FOR MOBILE LIFE

LithPowerUnit 120

120 Ah
LiFePO4
BATTERY
SINE WAVE
INVERTER
2500 W
MPPT-
SOLAR-
CONTROL-
LER
DRAWER
BOOSTER
(30 A)
BATTERY
MANAGE-
MENT
SYSTEM
RCD
CIRCUIT
BREAKER
LCD-
DISPLAY
WEARA-
BLE
INCL.
MOUNTING
BRACKET
ROBUST
METAL-
HOUSING


LiFePO4 battery with BMS	120 Ah (12.8 V), 1536 Wh
Integrated sine wave inverter	2500 W (max. 5000 W short-term)
Integrated MPPT solar charge controller	30 A (max. 400 W)
Connection options	① 2x 230 V socket ② 2x 12 V cigarette lighter socket ③ 2x USB port (5 V/3.1 A) ④ 4x Anderson connection (50 A) ⑤ 1x Anderson connection (175 A)
Rechargeable via	230 V mains via charger Solar (solar module voltage max. 25 V) integrated charge booster
Size LxWxH / Weight	420x250x330 mm / ca. 25 kg
Art.No. Price	814137 1999,-



Scope of delivery:

① LithPowerUnit 120, ② Mains charger (Input: 200-240 V / Output: 14.6 V, 20 A), ③ Jumper cable (2 m, cable Ø 16 mm²) with 1 x 175 A Anderson plug and battery crocodile clips, ④ Solar cable (1.5 m, cable Ø 6 mm²) with 1 x 50 A Anderson plug and 1 x open cable end, ⑤ Connection cable for the D+ signal (ING cable, ca. 6 m), ⑥ 4 x 50 A Anderson plugs incl. crimp contacts (for cable Ø 6 mm²), ⑦ Various cover caps for the Anderson connectors, ⑧ Mounting material (incl. 2 x mounting brackets, 2 x lashing eyes and 1 x tensioning strap), operating instructions (not shown)

EcoFLOW



Mobile power supply of the latest generation



Ecoflow mobile lithium energy systems ensure power supply in all circumstances, day and night and regardless of where you are located. They have a large number of current outputs in different formats and adapt to each of your devices to provide you with a reliable, clean and quiet power source. All devices can be charged with the Ecoflow solar panels, among others.

- Intelligent battery protection system monitors voltage, current and operating temperature
- Eco Flow app for worldwide monitoring and control via Internet or via Bluetooth
- Super fast AC charging thanks to X-Stream technology



Tragbar



Schnellladung

Aufladen mit
erneuerbarer Energie

Model overview

① River 2 Max

- Up to 10 years lifetime with 3000+ charge cycles
- 100% fully charged in only 60 minutes
- Easy transport thanks to super light 6 kg

② Delta 2

- High AC output power of 1800 W
- Up to 13 devices can be connected simultaneously.
- Up to 10 year life with 3000+ charge cycles
- 7 times faster AC charging than comparable products thanks to X-Stream technology

③ Delta Max 1600/2000

- Connection of up to two solar panels
- Operation of multiple devices up to 3000 W
- Fully charged in under 1.5 hours thanks to integrated EcoFlow Smart Generator

④ Delta Pro

- Connection of energy-intensive devices
- Power supply for 99.9% of all major household and leisure devices
- Can be charged via EV stations
- Incl. Wheels and extendable suitcase handle
- 30 A Anderson connection

	① River 2 MAX	② Delta 2	③ Delta Max 1600/2000	④ Delta Pro
Capacity	512 Wh	1024 Wh	Delta Max 1600: 1612 Wh Delta Max 2000: 2016 Wh	3600 Wh
Cell chemistry	Lithium iron phosphate	Lithium iron phosphate	Lithium-ion	Lithium iron phosphate
AC input	220-240V~50Hz/60Hz	220-240V~50Hz/60Hz	220-240V~50Hz/60Hz	220-240V~50Hz/60Hz
Solar input	11-50V, 13A, 220W max.	11-60V, 15A, 500W max.	11-100V, 10A, 800W max.	11-150V, 15A, 1600W max.
Input via vehicle electrical system	12/24V, 8A	12/24V, 8A	12/24V, 8A	12/24V, 8A
USB-C output	5/9/12/15/20V, 5A, 100W max.	2x 5/9/12/15/20V, 5A, 100W max.	2x 5/9/12/15/20V, 5A, 100W max.	2x 5/9/12/15/20V, 5A, 100W max.
AC output	2x Pure sine wave, 500W (peak 1000W) 230V~50Hz/60Hz	4x Pure sine wave, 1800W (peak 2700W) 230V~50Hz/60Hz, X-Boost 2400W	4x Pure sine wave, 2000W (peak 5000W) 230V~50Hz/60Hz, X-Boost 2800W	4x Pure sine wave, 3600W (peak 7200W) 230V~50Hz/60Hz, X-Boost 4500W
DC output	12.6V, 10A/3A, 126W max.	12.6V, 10A, 126W max.	12.6V, 10A, 126W max.	12.6V, 10A, 126W max.
USB-A output	3x 5V, 2.4A, 12W max.	2x 5V DC, 2.4A, 12W max. 1x 5V, 2.4A/9V, 2A/12, 1.5A, 18W max.	2x 5V DC, 2.4A, 12W max. 1x 5V, 2.4A/9V, 2A/12, 1.5A, 18W max.	2x 5V DC, 2.4A, 12W max. 2x 5V, 2.4A/9V, 2A/12, 1.5A, 18W max.
DC5521 Output	2x 12.6V, 3A, 38W max.	2x 12.6V, 3A, 38W max.	2x 12.6V, 3A, 38W max.	2x 12.6V, 3A, 38W max.
Charging time via 230 V	ca. 60 min.	ca. 80 min.	ca. 96 min.	ca. 114 min.
Charge/discharge temp.	-10 - +45 °C	-20 - +45 °C	-20 - +45°C	-20 - +45°C
APP control	Wi-Fi & Bluetooth	Wi-Fi & Bluetooth	Wi-Fi & Bluetooth	Wi-Fi & Bluetooth
Scope of delivery	River 2 Max, AC Charging Cable, Car Charging Cable, DC5521- Connecting Cable, Quick Start Guide	Delta 2, AC Charging Cable, Car Charging Cable, DC5521 to DC5525 Cable, Quick Start Guide	Delta Max, AC Charging Cable, Car-Charging cable, DC5521 to DC5525 cable, user manual	Delta Pro, AC Charging Cable, Car Charging Cable, DC5521 to DC5525 Cable, Handle Cover, User Manual
Size (LxWxH)	270x260x196 mm	400x211x281 mm	500x250x300 mm	640x290x420 mm
Weight	ca. 6 kg	ca. 12 kg	ca. 24 kg	ca. 45 kg
Item no.	813300	813301	Delta Max 1600 813302 Delta Max 2000 813303	813304
Price	599,-	1199,-	Delta Max 1600 1599,- Delta Max 2000 1899,-	3599,-

ECOFLOW Foldable solar panels for power systems

EcoFlow solar modules are designed to produce maximum power at all times when combined with an EcoFlow Powerstation. The solar modules have high efficiency, and the EcoFlow Powerstation's MPPT algorithm provides better operating performance in cold and cloudy weather conditions. Robust and dust and water repellent. An ETFE film provides additional protection from ultraviolet light, extending the life of the panels.

Solar panel	① 160 W	② 220W
Cell type	Monocrystalline	Monocrystalline
Nominal power	160 W	Front 220W/ Rear 155W
Operating and storage temperature	-20 °C to 85 °C	-20 °C to 85 °C
Size folded	42x68x2,4cm	82x50x3,2cm
Size folded out	157x68x2,4cm	183x82x2,5cm
Weight	ca. 7 kg	ca. 12 kg
Item no.	840206	840207
Price	349,-	499,-

③ Adapter cable XT60, 3.5 m length

For connecting an Ecoflow solar panel or solar extension cable to an Ecoflow power station.

840209 29,-

④ Solar extension cable, 3 m length

With the extension cable, the solar panel can also be placed at a further distance from the vehicle. 2 cables in the set.

840208 49,-





LPS II - The all-in-one mobile power supply solution with integrated inverter, solar charge controller, charge booster and more



LPS II with a capacity of 100 Ah or 160 Ah

- Euro-6 optimized supercharging via vehicle engine
 - Connections for 12 volt and 230 volt consumers
 - Integrated solar charge controller (MPPT), inverter, battery management system and charge booster
 - Very short installation time of less than two hours
 - Compact design
 - Extreme weight saving
- (> 75 % compared to conventional systems)

The Lithium Power Supply II (LPS II), the successor model to the popular LPS, has been significantly improved in many features. The improved all-in-one solution based on the latest lithium technology not only significantly reduces the vehicle's own power consumption, but also enables very fast charging while driving, among other things. The operation of large consumers with high starting currents is also ensured. Despite comparable Size to the predecessor LPS, numerous new features and functions are integrated and higher performance is possible.

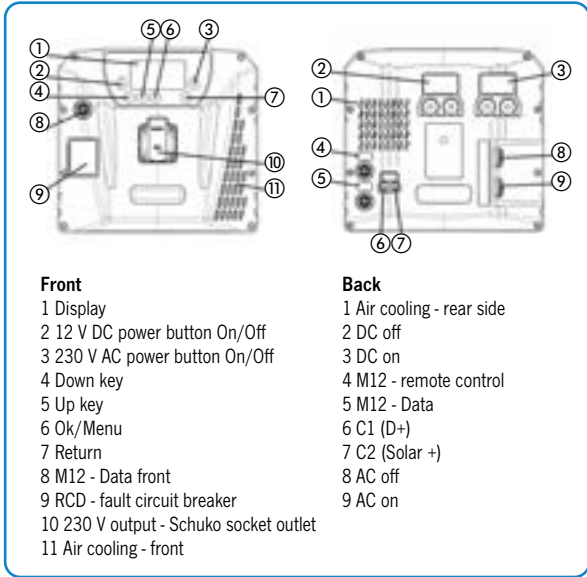
The integrated solar charge controller (MPPT) is powered by solar panels and thus charges the connected battery. The intelligent charge control ensures effective charging so that charging time is minimized and the battery is charged as gently as possible. It also protects against overcharging and thus ensures a long battery life.

Model	LPS II 1512-100	LPS II 2512-100	LPS II 3012-160
Battery type	LiFePO4		
Capacity	100 Ah (1,320 Wh)	100 Ah (1,320 Wh)	160 Ah (2,112 Wh)
Available capacity	80 Ah (1,050 Wh)	80 Ah (1,050 Wh)	136 Ah (1,900 Wh)
Output power (AC), permanent	1.300 W	2.000 W	2.300 W
Output power (AC), 10 min.	1.500 W	2.500 W	3.000 W
Output power (AC), peak 10 s.	2.600 W	4.000 W	5.000 W
Output discharge current (DC), perm.	180 A		
Output discharge current (DC), peak 1 min.	270 A		350 A
Input power solar (max.)	400 W		
Self-consumption (DC out active)	< 1 W		
Protection class	IP21		
Size in mm (LxWxH)	409 x 277 x 256		
Weight in kg	27,5		29,5
Item no.	813560	813561	813552
Price	3088,-	3564,-	4397,-

Optional accessories:



- ① 17-piece connection set, for all LPS II models. 813548 155,-
 - ② Remote control, for all LPS II models. 813547 113,-
 - ③ LPS II remote display, (without connecting cable) Displays the charge status and all operating data of the LPS II and the individual 12 V and 230 V outputs and inputs. The 12 V and 230 V outputs and inputs can be activated or deactivated at the touch of a button. 813539 435,-
 - ④ LPS II remote display connection cable, ready to plug in, length 6 m. For connecting the LPS II remote display to the LPS II 813540 39,90
 - ⑤ Mounting rail, for all LPS II models. 813546 46,50
- Material: sheet steel, galvanized. Size: LxWxH ca. 42x11,5x4,3 cm. Weight: 0.4 kg.



Nomia - Premium Lithium Batteries with 210 Ah/340 Ah Capacity



Nomia lithium iron phosphate (LiFePO₄) batteries with a nominal capacity of 210Ah/340Ah consist of a unique combination of state-of-the-art technology and intelligent software. This makes it a robust, safe and simple energy storage solution.

Type	Volt (V)	Ah	Length mm	Width mm	Height mm	Weight kg	Art.No.	Price
① 210 Ah	12	210	417	227	314	23,0	81414	3550,--
② NEW: 340 Ah	12	340	417	227	314	33,0	81448	4498,--
③ Protection relay (mandatory to ensure a safety shutdown)							813291	170,--
④ Battery monitor BM01 (shows voltage in V/capacity in %) including 5m connection cable							813297	199,99
⑤ Touch display (displays voltage, current, charge status and remaining charge/discharge time) including 5m connection cable							813293	276,50
⑥ Battery holder set for Nomia battery							813294	69,50



TO THE VIDEO



Epsilon - Lithium batteries with integrated heating function



Highest capacity in a standard housing available on the market.

The fully automatic heating function kicks in as soon as the ambient temperature drops below 0°C. The battery is then specifically heated, thereby performance losses are avoided and the charging process can be carried out without any be started. The internal BMS transmits the state of charge, voltage and power on Android/Apple smartphone or tablet.



TO THE VIDEO

Type	Volt (V)	Ah	Width mm	Height mm	Depth mm	Weight kg	Art.No.	Price
① 100 Ah	12	100	278	190	175	11	813991	1909,--
② 150 Ah	12	150	353	190	175	16	813992	2415,--
③ Battery monitor BM01 (shows voltage in V/capacity in %) including 5m connection cable							813298	192,95
④ Touch display (displays voltage, current, charge status and remaining charge/discharge time) including 5m connection cable							813295	299,--
⑤ Battery holder for Epsilon batteries							813296	59,90

All SUPER B batteries are tested and certified according to ECE R10



Lithium batteries Li 105

The EFOY lithium (LiFePO₄) battery as a power storage device is the ideal introduction to off-grid power supply. The integrated Smart Battery Management System (BMS) continuously controls and optimizes battery parameters for ideal efficiency and battery protection. Thanks to the built-in heating element, the EFOY lithium battery can be charged even at sub-zero temperatures. The robust housing protects against splashing water.

Type	Volt (V)	Ah	Length mm	Width mm	Height mm	Weight kg	Art.No.	Price
Li 105-12V	12,8	105	368	175	190	appr. 16.3	81416	1799,--



EFOY
ENERGY FOR YOU



Lithium batteries from 20 to 100 Ah

- Only ca. 1/3 of the weight of a conventional lead-acid battery
- Very low self-discharge in winter
- In most cases, the existing charger can still be used
- High charging currents therefore fast charging possible
- Ca. 3,000 to 5,000 cycles!

Type	Volt (V)	Ah	Length mm	Width mm	Height mm	Weight kg	Pole	Art.No.	Price
RB-20	12	20	181	76	165	2,8	M6	81401	356,--
RB-80-DIN	12	80	335	175	190	11,6	M12	81403	1243,--
RB-100-DIN	12	100	335	175	190	13,3	M12	81404	1399,--
RB-100	12	100	329	172	226	14,5	M12	81405	1410,--

RELION
Lithium For Life



CARBEST
 INNOVATIONS FOR MOBILE LIFE

Lithium power for on the road



VERY DURABLE

LiFePO4 batteries from 60 Ah to 150 Ah

12V	60 TO 150 Ah	BMS	COMPACT DESIGN	VERY DURABLE	INSTALLATION LYING POSSIBLE	M8 WIN
-----	--------------	-----	----------------	--------------	-----------------------------	--------

- Reliable and powerful battery technology
- Battery protection through integrated battery management
- Up to 90% current drain (short term)
- 3 times less weight - thus more payload possible
- 5 to 10 times longer service life (ca. 2000 to 5000 cycles)
- 3 to 10 times faster charging
- Horizontal installation possible

Batteries cannot be connected in parallel or in series!

Type	Volt (V)	Ah*	Max. Discharge current short term	Size LxWxH mm	Weight kg	Art.No.	Price
60	12	60	80 A	195x165x180	7,2	81208	449,--
100	12	100	160 A	305x170x210	13,5	81209	849,--
100 BT	12	100	160 A	305x170x210	13,5	81410	899,--
150	12	150	300 A	485x170x240	18	81238	1399,--

*Power 90% available

Battery and charge status can be called up via smartphone with free app.

Battery, charge status and more can be called up at any time via smartphone or tablet

5 YEARS WARRANTY



HEAT-FUNCTION

 The Li100BT-H has an integrated fully automatic heating function. It selectively heats the battery from a temperature of $\leq 0^{\circ}\text{C}$ to avoid charging problems.


100 Ah lithium batteries with Bluetooth technology

12V	100 Ah	BLUE TOOTH	BMS	VERY DURABLE	INSTALLATION LYING POSSIBLE	M8 WIN	FREE CARBEST APP
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- Battery status readable via smartphone/tablet
- Series connection possible: up to 4 batteries
- Parallel connection possible: up to 2 batteries
- Battery protection through integrated battery management
- 5 to 10 times longer life, 10 times faster charging
- Only ca. 1/3 of the weight of a conventional lead-acid battery
- Li100BT-H lithium battery (814131) with integrated heating function for effective charging even at minus temperatures
- Integrated display with charge level indicator

Reliable and powerful lithium technology for tough continuous use. The integrated BMS (Battery-Management-System) monitors the battery internally for optimum protection. The charging status and battery capacity are always under control via smartphone and free app. Horizontal installation possible.

 Functioning of the heating function on Li100BT-H: The internal BMS continuously monitors the ambient temperature of the battery and controls the integrated heating function fully automatically. If a temperature $\leq 0^{\circ}\text{C}$ is measured during the charging process, the BMS immediately stops the battery charging and simultaneously activates the heating function of the battery. After reaching $+5^{\circ}\text{C}$, the charging process continues automatically. If the temperature rises above 10°C , the heating function is deactivated again.

Battery	Volt (V)	Ah	Max. Discharge current short term	Size LxWxH mm	Weight kg	Art.No.	Price
Li100BT	12	100	150 A (<4min.)	330x170x195	ca. 14	81413	949,--
Li100BT-H	12	100	150 A (<4min.)	330x170x195	ca. 14	814131	999,--

Now the free Carbest app download for smartphone & tablet



CARBEST
 INNOVATIONS FOR MOBILE LIFE

Lithium LiFePO4 Power optimized for Campervans & Motorhomes

12V

100 TO
200 Ah

BMS

COMPACT
DESIGNVERY
DURABLEINSTALLA-
TION
LYING
POSSIBLE

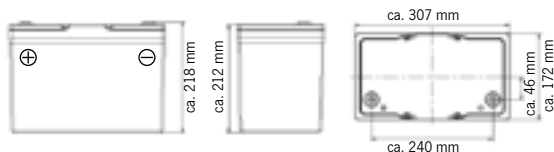
- Reliable and powerful battery technology, for tough continuous use!
- Battery protection through integrated battery management
- 5 years warranty

- Low self-discharge when not in use, as a sleep mode is automatically activated after 24 h without charging/discharging
- Ideal replacement for heavy AGM batteries
- 3 times less weight - thus more payload possible
- 5-10 times longer service life (ca. 2000-5000 cycles)
- Horizontal installation possible

5
YEARS
WARRANTYNEW
2023100
AhM8
WIN2 TRAGE-
GRIPS

- Strong price-performance ratio
- Series connection possible with up to 4 batteries
- Parallel connection possible with up to 2 batteries
- Housing with 2 integrated carrying handles

Battery	Volt (V)	Ah	Max. Unloading-charge current electricity	Max. Dis-charge current short term	Weight kg	Art. No.	Price
Li100	12	100	100 A	200 A (< 5s.)	12,5	81451	899,-

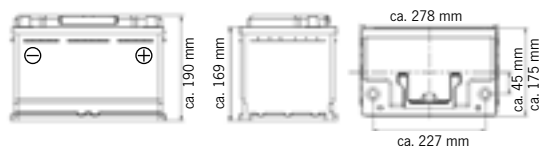
100
Ah

M8

REIMO
TOP PRICE
899,-100
AhSTANDARD
BATTERY-
POLEBLUE
TOOTHHEAT-
FUNCTIONDIN H6
HOUSING1 CARRY
HANDLEFREE
CARBEST
APP

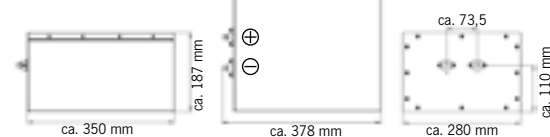
- DIN H6 housing, especially for mounting under the driver's seat at VW T6.1/T6/T5
- Standard car battery terminals
- Series connection possible with up to 4 batteries
- Parallel connection possible with up to 2 batteries

Battery	Volt (V)	Ah	Max. Unloading-charge current electricity	Max. Dis-charge current short term	Weight kg	Art. No.	Price
Li100BT-HH6	12	100	100 A	350 A (< 3s.)	12,5	81452	999,-

100
AhUnder-seat battery:
Especially for mounting
under the seat in the
VW T6.1/T6/T5200
AhM8
CONNEC-
TIONBLUE
TOOTHHEAT-
FUNCTIONMETAL-
HOUSINGFREE
CARBEST
APP

- Metal housing with special Size, suitable for under seat mounting Fiat Ducato
- M8 screw thread on the front of the battery
- Series connection possible with up to 4 batteries
- Parallel connection possible with up to 4 batteries

Battery	Volt (V)	Ah	Max. Unloading-charge current electricity	Max. Dis-charge current short term	Weight kg	Art. No.	Price
Li200BT-HDUC	12	200	150A	350 A (< 3s.)	25	81453	1890,-

200
Ah

M8

Under-seat battery:
Especially for mounting
under the seat in the
Fiat Ducato



Lithium battery PowerUnit

Lithium power in combination with the existing on-board battery (AGM or GEL)

- Simple assembly
- Significantly more capacity • High current draw possible
- System independent of outdoor temperature
- Extremely long service life of the entire battery system
- Finally use the vehicle also self-sufficient
- Onboard battery becomes a pure backup battery

Type	Ah	Weight	Item no.	Price
Lithium battery PowerUnit I	85	11,4 kg	85263	1729,-
Lithium battery PowerUnit II	105	15,3 kg	85264	1779,-
Lithium battery PowerUnit III	120	16,4 kg	85265	1959,-
Lithium battery PowerUnit IV	180	25,2 kg	85262	2698,-



The PowerUnit enables the simple and safe combination of a Büttner Elektronik LiFePO4 battery with the existing on-board battery (AGM/gel/liquid acid). Both battery systems are connected with the enclosed cable set. A special battery computer monitors and controls the system. This is connected to the BMS (battery management system) of the lithium battery and also prevents further charging by the existing charging systems if the lithium battery is fully charged but the charging devices still have to charge the installed on-board battery further due to their AGM or -gel characteristic. In addition, the battery computer displays the total available capacity of the complete battery system in the interior.

Additional function: If the vehicle is not used as a touring vehicle, this can be set on the battery computer at the touch of a button. As long as this rest function is activated, the lithium battery is not fully charged, but is kept in the partial charge state that is optimal for it. This significantly increases the service life of the LiFePO4 battery.

Scope of delivery:

Installation kit with LiFePO4 battery, battery control computer and cable set.



MT LI 120



MT LI 85
MT LI 105

MT LI 240
MT LI 300

MT LI 180

Onboard battery with lithium technology

High storage capacity, low weight and a high cycle stability characterize the LiFePO4 on-board batteries from BÜTTNER ELEKTRONIK. A battery management system (BMS) monitors the batteries internally.

The operation of inverters even with higher output power is possible without any problems. The battery housings used for the MT-Li 85 and MT-Li 105 have been adapted to the common Size so that they can be installed in existing standard brackets.

Type	Volt (V)	Ah*	Length x width x height mm	Weight kg	Art. No.	Price
MT LI 85	12	85	278 x 175 x 190	11	81434	1349,-
MT LI 105	12	105	353 x 175 x 190	12	81417	1399,-
MT LI 120	12	120	330 x 172 x 212	13	81418	1599,-
MT LI 180	12	180	485 x 172 x 250	23	81409	2349,-
MT LI 240	12	240	520 x 240 x 220	29	81435	2969,-
MT LI 300	12	300	520 x 270 x 220	36	81436	3599,-

*Capacity at 20 °C



Lithium battery Power Set III

The set is designed to work as a stand-alone system, but can also be connected in parallel to an existing charging infrastructure if a charge booster is not yet provided. All devices in the set are optimally matched to each other and always guarantee full capacity and safe operation in all climate zones and at any time of year.

If 230 V mains is available, the on-board battery is charged with 20 A and booster charging with 25 A is available while driving. In both charging situations, the BCB 25/20 receives direct information from the lithium battery to charge it optimally and safely. In addition, the battery is monitored by the battery computer and this displays the currently available battery capacity (in % and Ah) as well as the current consumption (A) and the remaining runtime in the interior.

Scope of delivery: Lithium on-board battery MT LI 120, charger/booster combination including cable set,

Battery Computer MT iQ BASIC^{Pro} with Hall sensor incl. ready-to-plug-in installation cable set for Battery computer.



MT LI 120

81419

2579,-

Deep-Cycle AGM Batteries

12V

LONG LIFE
DEEP-
CYCLE

MAIN-
TENANCE-
FREE

COMPACT
BAUFORM


- Maintenance-free service battery for campervans and motorhomes
- High vibration resistance and leak proof
- Position-independent installation possible
- High cycle stability, also ideal for use in combination with a solar system
- Low self discharge

Carbest AGM batteries have been specially developed for use in motorhomes. Thanks to AGM technology (Absorbent Glass Mat), the batteries are absolutely maintenance-free and allow installation in any position, upright or lying on its side (do not install upside down, with the battery terminals facing down). The T100 battery can be installed under the front seat in Volkswagen T5/T6 and Fiat Ducato.

The high vibration resistance, very good cycle stability and low self-discharge make the batteries the perfect energy storage for campervans and motorhomes. Thanks to their compact size, they fit into common battery fixtures or storage compartments. AGM batteries are frost-proof up to a temperature of -40°C.

Battery	Volt (V)	Ah	Size LxWxH (mm)	Battery terminal Thread	Weight (kg)	Art.No.	Price
① NEW: AGM 60	12	60	258x167x213 °	M6	23,5	850534	245,-
② AGM 80	12	80	350x167x179 °	M6	22,5	850529	219,-
③ NEW: AGM 90	12	90	306x168x216 °	M6	29	850535	295,-
④ AGM 100	12	100	330x171x220 °	M8	29,0	850531	239,-
⑤ AGM T100	12	100	353x175x190	---	26,3	850530	259,-
⑥ NEW: AGM 120	12	120	330x173x218 °	M8	33,5	850536	339,-
⑦ NEW: AGM 134	12	134	340x174x285 °	M8	42,5	850537	387,-

° plus height of battery terminal screws



Notes on battery disposal:

You are required by law to return old batteries and accumulators. You can do this free of charge in the trade store or at a other collection point in your area. Addresses of suitable collection points can be obtained from your city or local government. The symbol of the crossed-out trash can on batteries or accumulators indicates that they must not be disposed of with household waste. The respective chemical symbol (Hg, Cd or Pb) below the symbol of the crossed-out trash can, which indicates that batteries or Accumulators contain mercury, cadmium or lead. Further information can also be found on the Internet at <https://www.batteriegesetz.de/>



Which battery for which application? Normal starter batteries are not designed for cyclic loads and are not recommended as on-board batteries. Cycle-resistant batteries are ideal for the loads that occur during discharge/charge operation. A distinction is made between batteries with bound electrolyte in gel or AGM design, classic liquid/acid batteries and lithium as LiFePO4.

Gel, AGM and LiFePO4 batteries are leak-proof and absolutely maintenance-free over the complete service life. All battery types achieve high cycle stability under the required charging conditions.

Gel batteries can also be discharged very deeply for a short time, always provided that they are immediately recharged.

AGM batteries have a slightly higher performance for the same box size and can also cope with very high charge/discharge currents in the short term.

Batteries in LiFePO4 design (see previous pages) are the lightest energy storage devices with the highest energy density. The price is far higher, but this is somewhat offset by the longer service life that can be expected with the existing infrastructure.

The service life of a battery is measured in charge cycles. One charge cycle means: 1 x discharge, 1 x charge. In this case, the smaller the amount of energy extracted (in percentage terms), the longer the service life. At a maximum discharge of 30% ca. 1200 charging cycles. If it is always discharged by 50%, the life is reduced to about 500 cycles. With classic starter batteries (lead / acid), this difference is much greater. (After installation or before winter storage min. 24 h load).



AGM batteries from VARTA Professional

- Innovative AGM technology, absolutely maintenance-free
- 3-4 times higher cycle stability for starting and supplying
- Tilt and leak proof, very good starting power

VARTA Professional AGM batteries

Ah/20 h	Type	Size (LxWxH) in mm	Weight	Item no.	Price
70	LA70	278 x 175 x 190	20 kg	813421	232,-
80	LA80	315 x 175 x 190	22,6 kg	813422	279,-
95	LA95	353 x 175 x 190	26,2 kg	813423	299,-



Optima AGM batteries

- Ideal for shunting systems
- High power density
- Short-term loadable up to 100%
- Leak proof, gas free

Ideal for movers. Small power plants for motorhomes and caravans. OPTIMA® AGM spiral cell technology sets standards in durability, weight and power density. Specially designed for seasonal use, it is the energy store for your vacation. Leak-proof and absolutely gas-free. Ideal for Moverin use in caravans.

Type	Capacity.	Size mm (LxWxH)	Art.No.	Price
YTS 2.7	38 Ah	237 x 129 x 227	85550	241,-
YTS 4.2	55 Ah	254 x 175 x 200	85551	319,-
YTS 5.5	75 Ah	325 x 165 x 238	85552	392,-



Parallel connection of two 12 V batteries (results in double power, 12 V remains the same). However, you should only connect batteries of the same type and power in parallel!



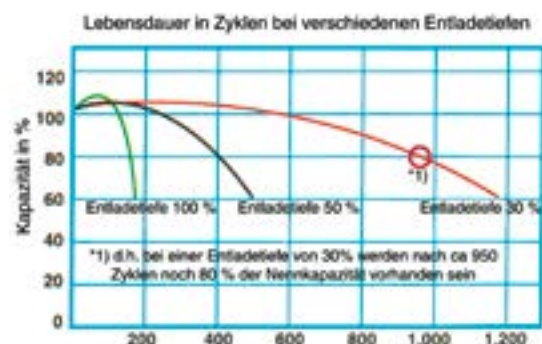
Series connection of two 12 V batteries (results in 24 V, power remains the same). For trucks, it makes sense to connect two 12V batteries of the same power in series for residential use (24 V).

Green Power AGM -

The proven body batteries for motorhomes

- Powerful solar and residential batteries
- In use and proven for years
- Vibration resistant
- Can be installed in any position and is absolutely maintenance-free
- High cycle stability, ideal also for solar connection
- 24 months warranty

Green Power AGM batteries are specifically designed for use in recreational vehicles. Green Power AGM batteries are leak-proof (can be mounted in any position and/or inclination), have a very low self-discharge and an increased number of charge and discharge cycles. The service life of a battery is measured in charge cycles. One charge cycle means: 1x discharge, 1x charge. In this case, the smaller the amount of energy extracted (in percentage terms), the longer the service life. A Green Power battery has about 1200 charge cycles at a maximum discharge of 30%. If it is always discharged by 50%, the life is reduced to about 500 cycles. After installation or before winter storage min. 24 h charge.



*Battery GP 100B can be installed under the front seat of VW T5 / T6 and Fiat Ducato.

from 238,-

NDS | DOMETIC



Type	Volt (V)	Ah**(20 h)	Ah*** (10 h)	Length mm	Width mm	Height* mm	Weight kg	Thread	Art.No.	Price
① GP 60	12	60	58	260	168	214	19,0	M6	850519	256,-
② GP 80	12	80	74	350	167	179	24,0	M6	85051	282,-
③ GP 80S	12	80	74	260	168	214	23,4	M6	850511	282,-
④ GP 90	12	90	85	306	169	214	26,0	M6	850521	309,-
⑤ GP 100	12	100	96	330	171	220	30,0	M8	850512	305,-
⑥ GP 100B	12	100	93	350	166	185	27,0	M8	850518*	346,-
⑦ GP 120	12	120	115	330	171	220	31,5	M8	850513	345,-
⑧ GP 250	12	250	236	521	269	223	65,0	M8	850520	730,-

*Height with screws, without battery terminals (+ ca.20-25 mm height with terminal), **C20 (value at 20-hour discharge), ***C10 (value at 10-hour discharge)

BÜTTNER

→ DOMETIC

AGM battery for touring vehicles - Made In Germany

MT AGM battery - 12 V/120 Ah

In proven AGM design equipped with a special micro-fleece, this on-board battery provides even more capacity with the same Size. This increase in performance was achieved through a higher cell volume. Apart from the already known advantages, this ensures an even longer power supply.

Ah/100h	Type	Size (LxWxH) in mm	Weight	Item no.	Price
120	MT-AGM	353 x 175 x 190	27,1 kg	85560	469,-



EXIDE



Exide gel batteries 80 Ah and 110 Ah

- Suitable for long periods of rest at 0 A power consumption
- High vibration resistance and tiltability
- Backfire protection and leak-proof, internal gas recirculation
- Up to 30% space saving, can also be installed laterally
- Maintenance-free

Exide ES900 / ES1200 are the successors of the G80 and G110 gel batteries from the professional EXIDE, proven over many years. High reliability, vibration resistant, high lateral inclination. All this with up to 30% space saving, due to compact housing.

Ah / 20 h	Type	Size (LxWxH) in mm	Weight	Item no.	Price
① 80	ES900	353 x 175 x 190	27,0 kg	85041	373,--
② 110	ES1200	284 x 267 x 226	39,0 kg	85045	599,--

VARTA



Professional Dual Purpose EFB

- Ideal for dual power applications (motor start and supply)
- High cycle stability
- Ideal for seasonal use due to minimal self-discharge
- Patented PowerFrame® grid for reliable starting performance, fast charging and high corrosion resistance
- Highest starting power

The Professional Dual Purpose EFB batteries are based on the EFB technology, this allows a higher cycle stability, as well as a higher strength in operation in the partially charged state.

Ah	Type	Size (LxWxH) in mm	Weight	Item no.	Price
① 70	LED70	278 x 175 x 190	19,5 kg	813402	193,--
② 95	LED95	353 x 175 x 190	24,5 kg	813403	255,--

VARTA



VARTA alkaline batteries - the powerful ones

Batteries Varta Alkaline High Energy powerful energy for devices with high energy consumption (eg computer applications, toys, audio equipment, etc.)

① Micro 4 pieces (type AAA, LR03)	81333	4,90
② Mignon 4 pieces (type AA, LR6)	81332	5,35
③ Baby 2 pieces (type C, LR14)	81331	4,45
④ Mono 2 pieces (type D, LR20)	81330	5,90
⑤ 9 Volt block battery 1 piece	81334	4,25
⑥ Lithium button cell 3 Volt (CR1632), 1 pcs.	47414	5,90

①



Battery box

① Battery box to hold 2x6 V block batteries. 1m connection cable, incorrect insertion of the battery impossible. 155 x 70 x 110 mm. Without batteries.

81340 6,20

② Suitable block battery 6 V for the compact water system. With 2 batteries in series you have 12 V.

81339 7,35



Battery pole

Plus & minus lead battery pole in set.

M6 thread	81273	11,60
M8 thread	81270	11,70



Battery pole adapter set

For converting batteries with M6 or M8 internal pole thread to a standard SAE conical pole (+/-). Scope of delivery: Set of terminals (+/- pole) incl. screws.

M6 thread	812761	4,50
M8 thread	812762	4,50



Acid batteries This refers to all battery types with liquid electrolyte, i.e. starter batteries, solar batteries as well as cycle-proof batteries. All of them must be installed in the interior of vehicles only in a closed, ventilated space. An acid battery wants to be checked regularly for a well-filled water level. Check the acid level regularly. Nowadays, maintenance-free acid batteries are common as starter batteries. Maintenance-free here means low-maintenance! The cells are not closed with valves.

BATTERY SWITCHES / BATTERY TERMINAL CLAMPS / BATTERY TERMINAL COVERS

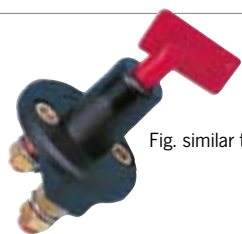


Fig. similar to

12V
24V

Battery disconnect switch

With removable key to separate two Batteries, as main switch and vehicle fuse against theft. Load capacity: duration/5 s. 100 A/500 A

81220 9,95



12V
24V

Battery disconnect switch

As art. 81220, but with 250 A continuous load and 2,500 A for 5 sec. This also allows large battery banks to be switched.

81285 24,90



12V
24V

Battery disconnect switch

Switch with installation housing switches up to max. 100 A, Size: 90 x 96 mm

White 81226 55,90



12V
24V

Battery selector switch

black, 230 A, short time 300 A, lockable

81380 52,50



Battery switch

12 V/2 batteries.

81371 19,90



12V
24V

Mini Battery Disconnect Switch

With 3 positions ON-OFF-OUT. Stops the main circuit by acting on the positive terminal of the battery and protects it during long storage. Bore Ø 29 mm, 2 V/24 V max. 100 A.

81229 21,95

Battery pole cover set

① Pole cover for car batteries. Material plastic.

Black/Red 81276 0,80

② Pole cover for lithium batteries with M8 threaded screws. Material plastic.

Black/Red 812760 0,80



Battery pole covers To protect the poles when not in use, e.g. when stored over the winter months. Material plastic.

① **Pole cover set, 2 pieces** For standard battery poles. 2 pcs. (+ and -). Black/Red

81272 2,10

② **Pole cover, 1 piece** For M8 screw heads e.g. for lithium batteries. 1 pcs. Black

81271 0,40



Minus pole terminal

Pole terminal with switch. The integrated switch quickly and reliably disconnects the loads from the battery (up to max. 100 A switching current)

81387 5,50

Battery quick clamps

- Tool-free connection & disconnection
- No dirty fingers
- Simple assembly
- Protected poles

Battery quick connector Quick connector for the 12 volt battery terminals. For positive and negative terminal. Loadable up to 125 amps. Color coding.

81310 14,95



Battery pole covers To protect the poles when not in use, e.g. when stored over the winter months. Material plastic.

① **Pole cover set, 2 pieces** For standard battery poles. 2 pcs. (+ and -). Black/Red

81272 2,10

② **Pole cover, 1 piece** For M8 screw heads e.g. for lithium batteries. 1 pcs. Black

81271 0,40



Battery terminals

Positive pole 81312 4,90
Minus pole 81313 4,90



Pole terminals M10

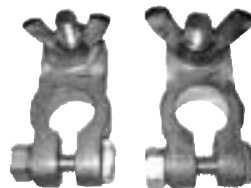
Battery pole with bolt M10 for connection of strong cables

Positive pole 81280 10,90

81280L

Minus pole 81281 9,27

81281L



Pole clamps set of 2

Battery clamp cast iron 2 pieces (+/-)

81385 5,60



Multiple pole terminals

Battery terminal MB3N Multiple terminal. 2x M6, 1x M8 thread with stop nut.

Positive pole 73215 29,95

Minus pole 73216 29,95

CARBEST
INNOVATIONS FOR MOBILE LIFE

Battery box EnergyStation

Turns a standard battery into a multifunctional Power Station



①
**Included
Lashing strap**



②



For batteries up to size
LxWxH 320x180x220
mm

- Digital voltmeter for battery monitoring
- 2x USB (2,4A), 2x 12V socket
- 2x 50 A high current battery connector
- For batteries up to size LxWxH 320x180x220 mm

① **The EnergyStation** is made of robust plastic and offers a wide range of connection options. Integrated in the cover are: External terminals (+/-), 1x USB double socket (2x 2.4A), 2x 12V sockets, 1x battery voltmeter, 2x high current battery connectors for connecting solar panels and other accessories. Fuses are pre-installed. Scope of delivery incl. tensioning strap to fix the lid and tensioning strap eyelets, delivery without battery. **813740 79,90**

② **Solar adapter cable, length 50 cm** For direct connection of the Carbest Folding Panel 82507 (p. 946) or Solar Case 825030 (p. 944) to the Carbest EnergyStation for charging the battery. Cable length 50 cm, 1x solar connector, 1x 50 A high current battery connector. **850921 29,90**

③ **Universal adapter cable, length 3 m**
To be connected to EnergyStation for charging the battery or for connecting various consumers. Cable length 3m, cable cross section red/black 10mm², 1x open cable ends, 1x 50 A high current battery connector. **850922 34,90**



12,95

Small battery box

Delivery incl. tensioning strap
Outer Size: L 33.5 x W 23 x H 26 cm,
Inner Size: L 27.9 x W 19 x H 20 cm
810321 12,95



Battery box with tensioning strap

Outer Size: L 42 x W 23 x H 29 cm,
Inner Size: L 34.2 x W 19.4 x H 22 cm
810331 17,90



Battery box with integrated battery poles

2 x 12 V can and test function, 2 x M10 wing screw, outside Size: L 42 x W 23 x H 31 cm, inside Size: L 34, x W 19,4 x H 22 cm.
81374 59,90



Variable battery box

Variable adjustable for almost all batteries. Incl. Fastening straps.
Outer Size: L43xW24xH26 cm, Inner Size: L40xW17xH 25 cm
81030 32,20



Robust battery box

Robust plastic, gasoline & acid resistant. Incl. Tension belt.
Outside Size: L34 x W23 x H27 cm
Inside Size: L27 x W19 x H20 cm
810322 23,50



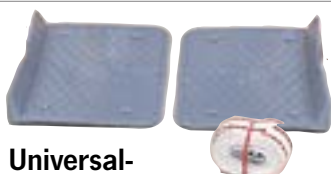
Jumbo battery box

For almost all batteries. Incl. Tension belt.
Outside Size: L 46 x W 24 x H 28 cm,
inside Size: L40 x W20 x H20 cm.
810323 25,30



Battery holder

Made of galvanized steel for mounting the battery under the driver's seat, for example, VW bus. Simply screw the plate to the floor. For battery depth up to 189 mm. Size: 195 x 371 mm. **81031 26,95**



Universal-Battery holder

Ideal for horizontal battery mounting! With complete mounting hardware (strap and brackets). Size per plate: 120 x 160 mm
81029 14,50



Battery holder

Plastic, black
Inner size: 280 x 178 mm
81373 9,95



Battery carrying aid

Facilitates the carrying of batteries and removal from stowage spaces. Easily adjustable in width. **81074 21,50**



Battery mounting set

Battery mounting T-shape
W 165-187, H 170-225 mm
81377 16,90



Battery holder

Plastic, black
Inner size: 275 x170 mm
81375 9,90

VOTRONIC

12V



Battery monitor Protector 12 V, 40 A

Is used between 2. Battery and consumer switched. Shutdown at 10.7 V, ON at 12.5 V. Self-consumption only 2 mA. Switching capacity 12V/40 A, short-time 30% overloadable. Remotely controllable, with EMERGENCY ON function. With emergency on-switch. Size: 90 x 60 x 38 mm, weight: 97 g.

80118 82,90

VOTRONIC

12V
24V

Also for
LiFePO4 batteries



Battery monitor Protector 100 A

To protect the on-board battery from deep discharge. As battery main switch with 1-pin. Switch remotely possible. With emergency on function. Switch-off thresholds adjustable. With pre-alarm. With control LED, switching current 100 A, short-term up to 180 A. Size: 105 x 70 x 37 mm, weight: 180 g. 12 V/24 V switchable.

81214 169,--

NDS | ↔ **DOMETIC**



Touch screen battery management

- Connect batteries of different technology and current
- Touchscreen color display with different control options
- Automatic management of up to 3 batteries
- Output for starter battery when service batteries are charged

The iManager is an innovative management system for all battery types. It can manage up to three batteries simultaneously or separately, including different battery types and amperage strengths.

Performance improvement through optimal charging and automatic battery shutdown extend battery life. It permanently controls the voltage of the batteries and the charging and discharging current.

85182 307,--

NDS | ↔ **DOMETIC**



Battery control

The automatic battery switch 12 volts (deep discharge protection) disconnects the battery when the voltage falls below 11 volts and automatically re-enables it as soon as the voltage is above this value again (e.g. during charging). A switch allows the battery to be turned on manually after the shutdown has occurred. Peak load up to 100A. Status indication with LEDs.

85180 87,--

LIPPERT



Battery monitor BW 50

Battery monitor specifically for the consumers that require a lot of power, such as air conditioners. The switch-off voltage is 11.3 V, switch-on voltage 11.9 V. Size: L 100 x W 90 x H 43 mm, weight 140 g. Switching capacity max. 50 A.

81216 105,--

VOTRONIC

D+ Simulator Pro

- Suitable for all vehicles with combustion engine
- No intervention in the vehicle electronics
- Adjustable switch-off delay
- Display of device status via three-color LED
- Additional voltage monitoring

Operating voltage: 12V/24V, intrinsic current consumption rest: < 3 mA, switching output: + switching, max. 300 mA, switching delay on: 4s, switching delay off (adjustable): 10s...5min, working temperature range: -40...105°C, Size (cylinder): 43x25mm, connecting cable: 2m, weight: 100g.

812220 96,50



12V
24V

Reimo disconnect relay

12V
24V



Automatic disconnection of 2 batteries. Reverse polarity protection by 2 protection diodes.

12 V 70 A

81200

16,45

24 V 40 A

81204

15,30



CBE

Isolating relay 70 A

Autom. Disconnecting 2 batteries (simple version)

81202

16,30



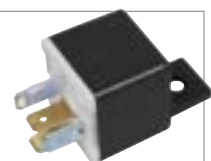
HELLA

Changeover relay 30 A

with 5 connecting pins.

81205

13,94



BATTERY CHARGE BOOSTER / RELAY FOR EURO 6 VEHICLES

VOTRONIC



from 210,-

①



②



Charge booster, optimal charge while driving

- For acid, gel and AGM batteries
- Additionally with special charging programs for LiFePO4 batteries
- Especially suitable and recommended for vehicles with EURO6 standard
- Optimizes battery charging and compensates for power loss
- Charging power from 30 to 90 A for each type of vehicle

Powerful charge converter with microprocessor-controlled IUoU characteristic for optimal charging of the battery while driving. Compensates for voltage losses in long cable runs and/or small cross-sections. Suitable for acid, gel and AGM batteries as well as state-of-the-art lithium LiFePO4 batteries. Delivery includes temperature sensor.

① VCC 1212-30 - 30 A charging power	831801	210,-
VCC1212-50 - 50 A charging capacity	831802	348,-
VCC1212-70 - 70 A charging capacity	831803	468,-
② VCC 1212-90 - 90 A Charging power	831804	545,-

Optional accessories

③ LCD Charge Controls S	
801154	93,70
④ LED Remote Control	
801962	52,95

③



④



DOMETIC

③



②

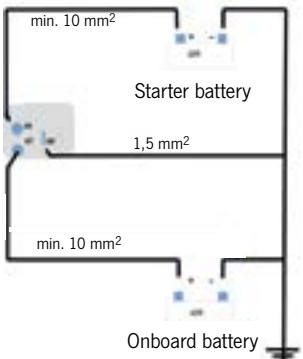
①

Dometic PerfectPower DCC 1212-10 charging converter

- Complete battery charging while driving
- Voltage stabilizing for sensitive 12 volt consumers
- Ideal for modern EURO 6 vehicles

This DC charge converter ensures an optimum state of charge of the supply battery at all times while driving. So you will never arrive at your destination with a dead battery. Highly recommended for modern EURO 6 class vehicles with intelligent alternator. Also recommended for vehicles where the cable cross-section is not sufficient to supply the connected devices.

	① DCC1212-10	② DCC1212-20	③ DCC1212-40
Input voltage (VDC)	12 (8-16)		
Output current	10 A	20 A	40 A
Output voltage	12 (13,2 - 14,7)		
Efficiency	up to 90		
Battery types	Lead-acid batteries (liquid, gel, AGM), lithium batteries		
Size WxDxH (cm)	15,3x18x7,3	15,3x22x7,3	15,3x26x7,3
Weight (kg)	1,25	1,55	1,85
Item no.	80517	80518	80519
Price	205,-	305,-	415,-



SMART isolating relay suitable for EURO 6

- 2 control methods - voltage-dependent or via motion sensor
- Recommended for vehicles with EURO6 standard
- With diodes against current backflow from on-board to starter battery
- No D+ signal necessary
- Perfect in combination with charge booster for even more charging power
- TÜV certified

Isolating relay for connection and disconnection of starter and on-board battery. 2 Working methods ensure safe operation. The relay switches on the one hand at a voltage of 13.4 volts or when the vehicle moves. A diode circuit prevents current from flowing back from the on-board battery to the starter battery. Power: 12 V / 120 A, 180 A for a short time.

The cable cross-section of the battery connection should be min. 10 mm². Mounting should be as close as possible to the starter battery. Make sure that it is firmly mounted on the body so that the motion sensor works properly. Size: W 45 x D 45 x 45 (83) mm.

SMART isolating relay	81246	77,-
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All Size and weights are caimate, for further details see www.reimo.com.



Battery charge booster with integrated 18 A Refrigerator output



- Suitable for lead-acid / AGM / GEL / lithium batteries
- For vehicles with intelligent alternator (Euro 5/6)
- Operation with or without D+ signal possible
- Charging characteristic: IUoU
- Built-in fuses (B1, B2 and refrigerator)
- Uncomplicated plug & play installation

The battery charge boosters from Carbest with 25 A or 40 A power charge your on-board or secondary battery quickly and reliably while driving.

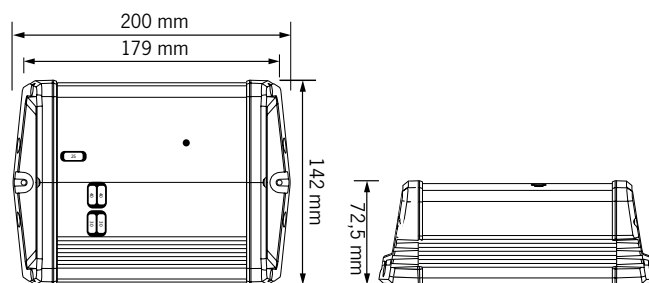
The IUoU charging characteristic supplies the battery with constant current and voltage matched to it. After reaching the charging end voltage, the changeover to float charge takes place. This compensates for the self-discharge of the battery.

The special, integrated 18A refrigerator output can be used to supply power to an absorber or compressor refrigerator directly from the charge booster. When the engine is running and/or the starter battery B1 is relatively charged, the output of the refrigerator is fed directly from B1.

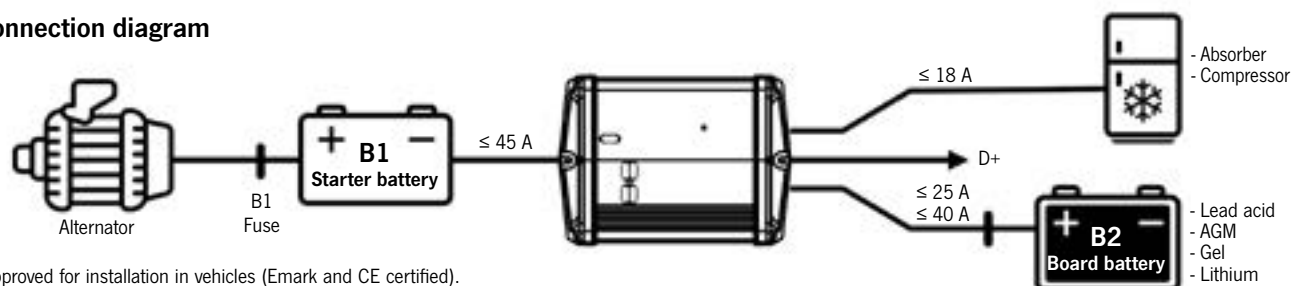
When the engine is at standstill and/or the starter battery B1 is relatively low charged, the output of the refrigerator is switched off or fed by B2, depending on the setting of DIP switch No. 3. Operating temperature range: +10°C to +50°C. Integrated undervoltage and overvoltage protection as well as reverse polarity protection.

Size: L x W x H 200 x 142 x 72.5 mm, Weight: 1.1 kg

DC-DC Booster 25 A	821820	199,--
DC-DC Booster 40 A	821821	299,--



Connection diagram



*Approved for installation in vehicles (Emark and CE certified).

BATTERY CHARGE BOOSTER



Charge booster LB - Optimized battery charging

- Optimal charging from the alternator while driving
- For longer trips the battery is guaranteed to be fully charged
- Temperature-sensitive IUoU charging characteristic, overcharging excluded
- High charging power even for short trips
- Suitable for liquid acid/gel/AGM and LiFePO4 batteries

	MT LB 30	MT LB 50
Input voltage	12 Volt DC	
Power	25 A/30 A	45 A/50 A
Size (L x W x H mm)	270 x 223 x 70 mm	
Weight (kg)	2,6	2,9
Item no.	85386	85387
Price	515,-	589,-



Voltage / charge optimization for caravans

- Especially for caravan
- The booster increases the charging voltage to 14.4 V
- Battery is optimally charged during driving
- Charging caravan battery with 8 A

Designed for caravan.

Current is only drawn when the motor is running. Discharge of the caravan battery due to leakage currents is avoided. Easy mounting due to integrated cut-off relay. Drop in charging voltage is prevented. Input voltage: 9-14.5 V. (max. 11 A). Output voltage: max. 14.4 V. Charging current 8 A at 12 V at the input. Size: H148 x W95 x D55 mm. Weight: 270 g.

Booster WA 1208	80075	146,-
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Charging booster for motorhomes

- Charging characteristics for lead-acid, lead-gel, AGM and lithium batteries
- Temperature compensated charging with optional temperature sensor
- Charging characteristic IUoU
- Charging while driving
- Compensates for fluctuating alternator voltage

	① WA 121525	② WA 121545
type. Charging current	25 A	up to 70 A
max. input current	28 A	65 A
Input voltage	12,0 V - 14,7 V	12,0 V - 15,0 V
Output voltage	14,7 V	14,7 V
Size WxHxD mm	148x59x95	160x76x160
Art. No.	800243	800244
Price	218,-	511,-

Thermosensor for battery monitoring	E6741	30,90
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Battery charge booster 25 A - the 3 in 1 solution

- Charge booster, charger and MPPT solar charge controller in one housing
- Built-in fuses
- Charging characteristic: IUoU
- Battery type: Lead-acid, AGM, Gel, Lithium
- Suitable for vehicles with intelligent alternator
- Uncomplicated plug and play installation

This battery charge booster combines three functions in one device. The compact housing contains a 230 V charger with 15 A, a booster with two outputs (25 A + 18 A) and an MPPT solar charge controller (20 A, max. 30 V, 250 W) power. The special 18 A refrigerator output can be used to supply power to an absorber or compressor refrigerator directly from the charge booster. Suitable for the following battery types: Lead-acid / AGM / Gel / Lithium. Size: (L x W x H): 203 x 174 x 67 mm
Weight: ca. 0.9 kg.

821810

465,-



NEW
2023

Charging converter, booster, solar regulator and charger Power Service Gold - the all-in-one solution

- With integrated solar controller and 230 V charger for electronically controlled power charging of the living area battery
- Up to 30 Ah charging power in driving mode
- Three different charging sources possible (12 V, 230 V, solar)
- Five-stage charging through desulfation function
- Super compact, ideal for smart alternators
- Euro 6 compatible

Suitable for gel, AGM and lead/acid batteries. For alternator output from 90 A, charging output from alternator 30 A, max. solar regulator output max. 250 Watt, L 228 x W 135 x H 98 mm, weight ca. 1.7 kg

800824

497,-



For Fiat Ducato
& VW T5/T6

NDS | ➡ DOMETIC

Power Service Basic - Charge Booster

- High charging voltage for gel and AGM batteries
- PLUS version with integrated 240 W solar controller
- Up to 30 Ah charge of the second battery per driving hour
- No modification to the alternator or regulator of the base vehicle
- Longer battery life due to desulfation function
- Multiplied charging current due to patented charging technology

PWS-4 30 BASIC Power Service BASIC for alternator output from 90 A, charging output from alternator 30 A, L 228 x H 135 x W 50 mm, weight ca. 1.0 kg

800822

266,-

PWS-4 35 BASIC Power Service BASIC for alternator output from 100 A, charging output of alternator 35 A, L 228 x W 135 x H 50 mm, weight ca. 1.0 kg

800823

257,-

PWS PLUS 30 Power Service PLUS for alternator output: from 90 A, charging output from alternator 30 A, max. solar regulator output 20 A, selector switch for lithium, AGM, gel and lead-acid battery, L 228 x W 135 x H 50 mm, weight ca. 1.0 kg

800828

338,-



HIGH
LIGHT

NDS | ➡ DOMETIC

Combination device (charger and charge converter/booster and MPP solar controller)

- Fully automatic, battery-saving battery charging
- High operational reliability
- Robust technology and compact
- Easy installation and hardly any cable runs

Device combination consisting of charging converter, mains charger and MPP solar controller. The batteries are optimally charged at all times. Integrated charging converter with 30, 45, 60 A. Particularly compact and lightweight design. Designed for common battery sizes, three different device combinations are available. All devices are equipped with 8 charging characteristics for lead-acid, -gel, AGM batteries and lithium LiFePO4 batteries.

Battery Charger VBCS 30/20/250 Triple

81291

770,-

Battery Charger VBCS 45/30/350 Triple

81292

892,-

Battery Charger VBCS 60/40/430 Triple

81293

1069,-



VOTRONIC

BATTERY PERFORMANCE / VOLTAGE CONVERTER



Intelligent Battery Sensor (IBS), Generation II

- Precise measurement of battery characteristics, voltage, current and temperature
- Latest technology from the automotive industry
- Also suitable for monitoring several batteries connected in series
- Configurable up to 500Ah
- Reliable detection of even short-term, high current consumption, e.g. during inverter operation
- Designed for starter, gel and AGM batteries



Monitors the power supply and battery capacity in the motorhome or caravan. Determines precisely the battery parameters voltage, current and temperature. Based on these measured values, information about the state of charge (SOC), the aging of the battery (SOH) and the expected startability (SOF) are calculated algorithmically. Can be integrated directly into the vehicle's electrical system (e.g. CI bus). The IBS Generation II is attached directly to the negative terminal of the battery via the pole terminal. In addition to the clamp, the mechanical part of the sensor consists of the shunt and ground bolt components. The existing ground cable can be conveniently attached to the ground bolt with a cable lug. Voltage range: 6-18 V. Operating temperature: -40°C to +115°C. Protection class: IP 6K7. Size: 68.12 x 28 x 44.6 mm, weight: ca. 70 g.

812150

149,-



Battery pole adapter for battery sensor (IBS), Generation II

Adapter for batteries without standard car battery terminal. The battery pole adapter is required if no standard car battery pole is mounted on the battery.

812151

43,23

NDS | **DOMETIC**

12V

100A



Powerswitch 12V/100A, 121 x 108 x 50 mm - expand battery capacity without problems

- Automatic management of two batteries, even with different technology and capacity
- Automatic (below 11 V) or manual battery disconnection
- Management of up to 2000 W at input and output
- Remote control included

POWERSWITCH is the automatic disconnect relay for separate management of two body batteries. As power consumption in the RV increases, so does the demand for available power. This requirement may make it necessary to use a second body battery, which can thus guarantee greater autonomy, but which cannot be mounted in parallel if it is not the twin of the other (i.e. identical in technology, amperage, brand and production lot).

Technical data: Operating voltage 12 V, maximum current 100 A, self-consumption 5 mA, Size: 121 x 108 x 50 mm. Weight: 320 g power switch, 40 g remote control.

85098

162,-

LIPPERT



SR 1203 - Voltage regulator 12 Volt DC

The voltage regulator SR 1203 provides a stabilized 12 V output voltage for sensitive electrical loads that require exactly 12V. Input voltage: 12 volts to a maximum of 15 volts. Output voltage: 12 volts (< 12 V with input voltage < 13 V. Maximum permissible load current: 3 amps. Size: (LxWxH) 110 x 75 x 56 mm. Weight: 140 g. Incl. Connection material.

82190

99,-

CARBEST
INNOVATIONS FOR MOBILE LIFE



12-24V voltage converter

Input voltage: 12 volts. Output voltage: 24V/10A
IP68. Size: 74x74x32mm, weight: 280g.

82183

29,95



DC-DC converter: e.g. for the conversion from 24 V to 12 V. They are needed to reduce a 24 V on-board voltage to 12 V - this is the only way to operate many electrical devices. For trucks, for example, use only switched-mode voltage transformers. These have the advantage that the efficiency is around 90% and the current losses are lower than with linear converters, which convert part of the energy into heat.



Recharging system

Automatic recharging system for starter batteries (not suitable for lithium batteries). If the voltage of the supply battery exceeds 13 V, the starter battery is automatically charged with up to 4 A; if the voltage of the supply battery falls below 12.5 V, the charging process is interrupted. Operation display via LED.

85028 42,30



Standby Charger - battery recharge and battery charge maintenance

Standby Charger for gel, AGM and lead/acid batteries. Depending on the state of charge of the living area battery, the starting or auxiliary battery is automatically charged with part of the charging current. Overcharging is excluded, since charging voltage is reduced by 0.6 V and charging current is limited to 2 A.

812242 38,70



Smart separator - Deep discharge protection with recharge function

It constantly compares the connection between the starter battery, the body battery and their connected loads. As soon as the voltage of the starter battery increases (charging by alternator), it switches the charging power also to the body battery. If the voltage of the starter battery drops below 12.8 volts, it disconnects the on-board battery from the charging process. When the on-board battery reaches 10.5 volts, it switches off all consumers to protect the battery from deep discharge.

82191 147,30



Bluetooth battery monitor

- Display battery status in real time via app on smartphone or tablet
- For Android or iOS devices
- Compact design

The compact device is equipped with a 15.5 cm long cable and is connected by means of 8 mm fork plugs, directly to the battery terminals. It requires a voltage of 6-20V DC and has a very low consumption with a current consumption of about 0.18W. Size: 55x35x16mm, weight: ca. 34 g

812400 45,40

Energy monitor via Bluetooth

Consists of a special communication module (Bluetooth Connector S-BC), which in conjunction with a Votronic solar charge controller (from 2013) with LCD Solar Computer S and/or the LCD Battery Computer S or VPC Jupiter with Smart Shunt additionally transmits all values to a mobile device via Bluetooth. The required app for Android or iOS is available free of charge in the Google Play Store or iOS App Store. The connection of the module is conceivable by plug-and-play simple. All information of the on-board battery, such as voltage, charging and discharging currents and the remaining capacity, as well as all data and yield values of the solar system are displayed. In addition, the most important data are logged, graphically processed and are stored for a longer period of time. Even the output as CSV file for own analysis purposes is possible. Of course, the Bluetooth Connector can also be retrofitted at any time - be installed in a way that is compatible with the system.

80144 163,-



For Android from 5.0

As of iOS 10
iPhone (from 5)
iPad (from 3. Generation)

JUMP STARTER / MOBILE CHARGERS



Jump Starter SR Booster

- Compact, mobile, handy (weight only 1.4kg)
- For effortless battery reanimation
- Capacity: 16,000 mAh (59.2 Wh)
- Can start vehicles more than 15 times in a row
- Stand with magnetic base
- White LED light and red light function

The SR Booster features a 12V LiFePo4 starter battery and effortlessly reanimates drained or weak vehicle batteries even at low temperatures with an inrush current of 2,000 amps. Status information can be read via the integrated LED display. With USB output (5V, 2.4A) as a power supply for separately connected devices. A white LED light allows work even in the dark, and the red light function can be used to signal dangerous situations. Output voltage: 12V DC, Max. Charging time: 5 h. Connection cable included. Size: WxHxD 120x260x133 mm, weight: 1,4 kg

800910

239,-



Power Starter and Power Bank

- For cars and vans
- Lithium-ion battery
- Capacity 16000 mAh
- Charging via 240 V and 12 V
- max. starting current 600 amps
- USB 5 Volt - 2.1 Amp
- Including all adapters

Powerbank as an energy source for on the road, can be used immediately as a jump starter, rechargeable battery or charger. The multi-purpose battery can charge cell phone or laptop, or start your car up to 6 times.

Size: ca. L 164 x W75 x H34 mm. Weight 450 g. In practical storage bag

800924

120,-

CARBEST
INNOVATIONS FOR MOBILE LIFE

The intelligent charger



- LCD display
- Diagnostic & Resuscitation Function
- For all 6/12V batteries (AGM, Gel, Wet)
- 5 stage charging program
- Controlled trickle charge
- Ideal for winter break

Microprocessor controlled Carbest charger with 4.0 amp charging power. Technical data: protection class IP65, battery capacity: max. 120 Ah

Input voltage: 220-240 V AC/ 50 Hz, max. 70 W
Output voltage: max. 14.7 V DC/4.0 A

Size: (LxWxH) 18 x 8 x 5 cm. Weight: 0.5 kg

819010

35,95

35,95

REICH
THE QUALITY EXPERIENCE



Charger Impulse U4

- For all 12 V batteries (AGM, gel, acid)
- Precise microprocessor charge control
- LED charging status indicator
- Controlled trickle charge
- Splashproof/dustproof (IP 65)
- Pole clamps for connecting the battery

Charger 4 A with regeneration from Reich. Charging current adjustable 0.8 A or 4 A. For wet, gel & AGM batteries up to 120 Ah. Allows a 100% charge. Can remain permanently connected to the battery. Revives deeply discharged batteries.

81900

70,50

Professional chargers with 10 A or 20 A

10 A
20 A

12 V

3 STAGES LOAD

BATTERY-TYPE ELIGIBLE

ALSO FOR LiFePO4 BATTERIES

Suitable for all 12 V lead-acid, GEL, AGM and LiFePO4 batteries. 3-stage charging program with short circuit, overcharge, reverse polarity and overheat protection. Input voltage: 180-240 V AC, Output voltage: Max. 14.6 V DC. Incl. Connection cable and battery clamps.

Charger 10 A, weight ca. 0.9 kg Size: LxWxH 150 x 130 x 50 mm

80280 89,90

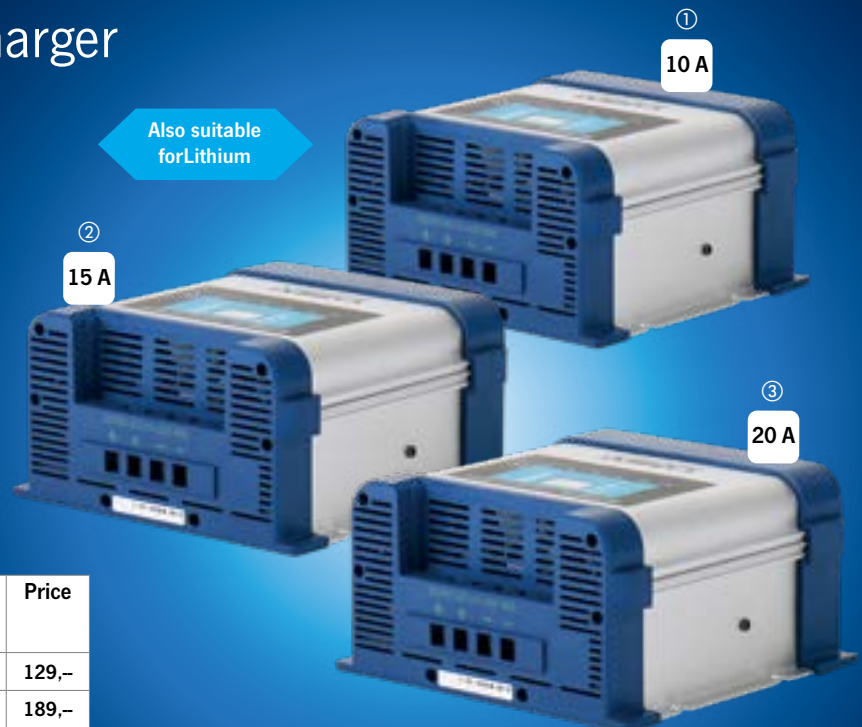
Charger 20 A, Weight ca. 1.3 kg Size: LxWxH 160 x 150 x 70 mm

80281 129,90



Intelligent 12V battery charger with latest 7-step Charging technology

- For charging GEL / AGM / lead-acid / lithium batteries
- 2 charging outputs 12V
- Automatic 7-stage charging algorithm delivers a much faster, more efficient and complete charge, without voltage drops
- This intelligent battery charger can be used as a constant power supply for accessories that need a stable and clean DC voltage
- Device cooling via integrated fan



Product	Size mm	Weight ca.	Recommended . Battery capacity	Art. No.	Price
① 10 A	176 x 175 x 95	1,3 kg	50-100 Ah	80286	129,-
② 15 A	176 x 175 x 95	1,3 kg	50-150 Ah	80287	189,-
③ 20 A	176 x 175 x 95	1,3 kg	100-200 Ah	80288	219,-

CARBEST
INNOVATIONS FOR MOBILE LIFE

*High quality Automotive
Engineering*

*for motorhomes,
vans & caravans*

**REISE
MOBIL**
INTERNATIONAL
KAUFTIPP
6/2022

**AUTO
TESTING**
**SEHR
EMPFEHLENSWERT**
REIMO
Reimo Carbest L1100BT
Ausgabe 10 / 2021

With bluetooth and
free app

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Over 500 high quality camping technology items and vehicle accessories on 90 pages. Now with your Reimo dealer or request free of charge under: www.reimo.com/kataloge

Now free of charge
Order catalogs:



www.carbest.de



Automatic chargers 15 A for high quality motorhomes

- Microprocessor controlled IUoU characteristics
- Automatic battery regeneration
- Compensation of voltage losses in long cables
- With optional temperature monitoring
- Including auxiliary charge output for the starter battery

Charging current 15 A with IUoU characteristic for acid/gel/AGM and modern lithium LiFePO4 batteries from 38-170 Ah (PB 1215). Remote control and temperature sensor optional. L 2 x W 160 x H 71 mm, weight from 1.3 kg.

Charger PB 1215 15 A	80180	321,--
Temperature sensor with 3 m connection cable	80181	21,70
Remote control m. LED display, incl. 5 m cable	801961	52,70



Powerful automatic chargers up to 60 A

- Two main charging outputs with built-in charging current distributor
- Separate auxiliary charge output for the starter battery
- Battery capacity adjustable
- Current consumption can be limited (power limit function)

Devices as above but with higher power and extended functionality: charging current 40 A or 60 A/12 V with IUoU characteristic for acid/gel/AGM and modern lithium LiFePO4 batteries from 75-480 Ah (PB 1240) and 120-660 Ah (PB1260). Remote control and temperature sensor optional. L 305 x W 160 x H 71 mm, weight from ca. 2.4 kg.

Charger PB 1240 40 A	80242	539,--
Battery charger PB 1260 60 A	80244	679,--
Temperature sensor with 3 m connection cable	80181	21,70
Remote control m. LED display, incl. 5 m cable	801961	52,70



Combination device (charger and charge converter / booster and MPP solar controller)

- Fully automatic, battery-saving battery charging
- High operational reliability
- Robust technology and compact
- Easy installation and hardly any cable runs
- With integrated CI bus interface

Device combination consisting of charging converter, mains charger and MPP solar controller. The batteries are optimally charged at all times. Above all, the amply Sized charging power of the integrated charging converter with 30, 45 or 60 A ensures that the on-board battery is charged with full charging current ever during short journeys. The series corresponds to the VOTRONIC single devices in terms of quality, equipment and functions and is characterized by its particularly compact and lightweight design. Acquisition, installation and connection wiring are reduced to a minimum. Designed for common battery sizes, three different device combinations are available. All devices are equipped with 8 charging characteristics, both for lead-acid, -gel and AGM batteries as well as for lithium LiFePO4 batteries future-proof.

Battery Charger VBCS 30/20/250 Triple CI	81291	770,--
Battery Charger VBCS 45/30/350 Triple CI	81292	892,--
Battery Charger VBCS 60/40/430 Triple CI	81293	1069,--

Optional monitoring and control unit for Battery Charger VBCS Triple - easy installation via plug and play, delivery includes 5 m cable.

LCD Charge Control S	801153	98,50
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Pulse generation prevents or reduces age-typical sulfation of the battery (80% reason for failure). Thus, the battery life can be up to 5-fold be increased. Pulse generation can also be used for battery maintenance. Old batteries can significantly regain capacity during a pulse charge win. There are restrictions for batteries that have a cell short circuit or a mechanical defect.



18 A

Universal chargers 18 A

Charger LAS 1218-2 Fanless switch mode charger with 18A/12V charging current for batteries from 55 to 180 Ah. High charging current with compact size and low weight. Charging characteristic IUoU. With charging phase display via LED. The charging of a second battery is possible in parallel with up to 3 A. Charging end voltage switchable, maximum 14.7 volts. Size: L 250 x W 150 x H 90 mm, weight: 1.0 kg.

LAS 1218-2 Universal charger, 2 characteristic curves for lead-acid and lead-gel/AGM (no temperature sensor possible) **800722** **279,--**

LAS 1218-2 BUS Schuko plug, incl. temperature sensor, all connection types, without connection cable to Sdt bus as of 2/2015 **800241** **370,50**

LAS 1218-2 BUS Wago connection Incl. Temperature sensor, charging cable to EBL MNL and MINIFIT, with connecting cable to Sdt bus as of 2/2015 **800242** **384,--**



Switch Mode Charger CB522-3 & CB522-LT

- Automatic charging system
- High-frequency switching technology
- Gured against overtemperature
- Suitable for lithium batteries (CB522-LT)

The CB522-3 switch mode charger is expressly designed for the caravan and boat industry and can automatically charge 12V lead acid batteries. The charger is protected against overtemperature and the 12V outputs are protected against short circuit and reverse polarity. High-frequency switching technology enables high performance with reduced weights and size.

① **CB522-3 Technical data:** voltage: 230V ~ ± 10%, frequency: 50÷60 Hz, maximum power: 320 W, protection fuse (ref. F2): T 3.15A (glass 5x20), safety switch: 230V ~ (lighted), maximum output current: 22A. Size: H 197 x W 207 x D 85 mm. **800354** **299,--**

② **CB522-LT** specially designed for lithium batteries **Technical data:** voltage: 230V ~ ± 10%, frequency: 50÷60 Hz, maximum power: 320 W, protection fuse (ref. F2): T 3.15A (glass 5x20), safety switch: 230V ~ (lighted), maximum output current: 22A. Size: H 180 x W 190 x D 85 mm. **800300** **338,--**



16 A



Switch Mode Battery Charger CB 516-3

Charging current 16 A / 12 V also suitable for AGM batteries, as well as for gel and acid. 6 charging phases: Desulphation - Bulk - Absorption - Float - Stand-by. IUoU Charging characteristic. Connections: Schuko plug for 230 V, flat plug sleeve 6.3 mm for 12 V. Size: W 180 x H 140 x D 85 mm. Weight: 1.0 kg.

800353

197,--



Compact loader

IUOU automatic charger, 12 Volt Optimal charging technology for 12 volt wet, gel and fleece batteries. Charging 1 battery, input voltage: 230 V DC. Input voltage range: 180-253 V AC/50-60 Hz, nominal battery voltage: 12 V DC, final voltage: 14.4 V DC float charge voltage: 13.6 V DC, max. battery capacity: 1000 Ah. Max. Charging current: 8 A, Operating temperature: 0° C to +50° C

80052

149,--



CSV 409

Power supply unit

- Bistable 12V main switching relay
- Charge booster 8A for battery charging while driving
- Charging the battery via 230V
- Suitable for 6-cell lead-acid and lead-gel batteries
- Connection for solar controller LR1218/RM1218
- Automatic disconnection of the consumers when the ignition is switched on

The CSV 409 is designed for operation in self-sufficient caravans. It contains a battery module, complete 12V distribution, 12V circuit protection and other control and monitoring functions. Scope of delivery: CSV 409, connection material, switch panel ST05.

In combination with the LT100 control panel, the CSV 409 is ideal for self-assembly or replacement of third-party systems. If you want to convert an existing Schaudt system from non-self-sufficient power supply to self-sufficient power supply, manufacturer-specific Schaudt/Lippert devices are sometimes required. To obtain the self-sufficient Schaudt/Lippert unit type suitable for your vehicle, please contact your vehicle manufacturer or dealer. Size: HxWxD 111x320x217 mm, Weight: 2.0 kg.

80070

402,--



199,--

Power supply unit CSV 300

- Five separately fused 12V circuits
- Priority circuit for mains supply, otherwise supply of the consumers from the vehicle battery
- Operation possible without battery
- Output voltage stabilized and filtered

The power supply CSV 300 is used to supply 12V devices such as submersible pump, light, etc.. Suitable for caravans that are mainly connected to the 230V mains and only briefly supply consumers from the vehicle battery. Switching between the supply from the vehicle battery and the 230V mains supply is automatic.

The power supply unit can also be used completely without battery to supply the 12V consumers from the 230V mains voltage. Output voltage: 12.5V, Output current: 24A, Size: HxWxD 84x211x227 mm Weight: 1.5 kg

80177

199,--



LED control panel LT 100 suitable for CSV 409

- Supply battery voltage display from 11.0-13.5 volts
- Level indicator for fresh water tank in 4 steps
- Main switch for central disconnection of the consumers
- Optical battery alarm in the event of a sharp drop in voltage
- 230 Volt mains control With the LT 100 it is possible to display the battery voltage and the level in the water tank. Supplied with 5 m connection cable and tank accessories. Size: 176 x 101 mm

800681

186,--

Cable bridge for solar controller LR1218 for direct connection to Schaudt/Lippert Electro block (without picture)

851304

13,90



E-Control - complete control unit with charger

- Integrated 20 A charger for on-board battery, 6 A for starter battery
- Integrated fan that can be switched off
- Operation via rotary pushbutton
- Clock with alarm and date
- Wide range of functions
- Illuminated display with various indicators
- Optional docking station for theft protection

E-Box - Control and switching center for the power supply in the motorhome. With 20 A charger for acid, gel and AGM batteries. Protection of various current circuits by integrated fuses. Cable connections are professionally connected to the flat connectors of the E-box using the supplied Multiclipset. With additional sensors, the display of fresh and waste water level, as well as a temperature display for inside and outside is possible. E-display required for operation!

Technical data: Current consumption without display/with display: 0.250 mA / 5 mA max. charging current on-board/starter battery: 20 A / 6 A.

Weight: ca. 3 kg. L 335 x W 222 x H 135 mm.

80007

1157,--

Connection cable Display Basic or Compact to the E-Box

Length 5 m

800073

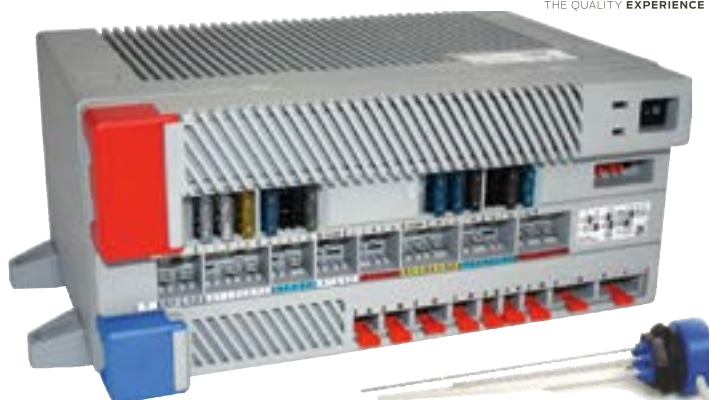
54,20

Docking station for Display Compact (optional.)

The display easily removable.

800077

33,95



Tank probe fresh water (blue) incl. 5 m cable for tank heights up to 35 cm (can be shortened)

800075

44,60

Tank probe waste water (grey) incl. 5 m cable for tank heights up to 35 cm (can be shortened)

800076

43,45

Temperature sensor for indoor or outdoor temperature. Incl. 1.2 m cable (extens.)

800078

63,70

COMPLETE ELECTRICAL SETS / CONNECTOR HOUSINGS



Energy block - One for all - Now also specially for AGM batteries

- Already fitted as standard in many motorhomes
- Complete 12 V supply is covered
- With integrated 18 A charger
- Battery monitor for protection against deep battery discharge
- Solar controller connection optionally possible
- Fuse block for 12 V for different circuits
- Connection of AES refrigerators possible
- Standard in many motorhomes

① **EBL 208 with display panel LT 453** The electric block EBL 208 contains a battery charging module (18 A, charging characteristic IUoU), the complete 12 V distribution, the fuse protection of the 12 V main switch relay, current-saving switching stage for the water pump, suitable for 6-cell lead-acid and lead-gel batteries (selection via switch), battery disconnecter for winter shutdown (no quiescent current consumption), battery monitor for shutting down the 12 V consumers in the event of undervoltage of the living area battery. Outputs of the 12 V distribution individually fused, partially switchable via relays. Parallel charging of residential and starter battery. Connection possibility for solar charge controller LR 1218- The matching display panel LT 453 shows the battery states and the filling level of 2 water tanks. ON/OFF switch for the entire system and a pump switch. Control LEDs for: Battery undervoltage, pump ON/OFF, 12 V ON/OFF, 230 V present. Delivery incl. power cable and connection material, connection cable EBL / LT 5 m), tank sensors for waste water tank, measuring probe for water tank. Total weight of all components: 3.9 kg. Size in mm: EBL 208 H 130 x W 275 x D 170, LT W 176 x H 106

800033 616,---

EBL 211 with display panel LT 453. With additional . special charging characteristic for AGM batteries. End-of-charge voltage for AGM 14.7 V, otherwise identical to EBL 208.

800034 616,--

② **Solar regulator LR 1218** The controller ensures simultaneous charging of Starter and residential battery using a solar module (for modules up to 250 W). Charging end voltage: 14.2 V, rated current max. 18 A. With connection material and fuses with holders. Weight. 150 g. Size in mm: L 110 x W 75 x H 56

85059 125,--

③ **Rod tank probe M400** for water tanks or wastewater tanks up to a height of 400 mm, can be shortened. Probe is mounted in a hole at the top of the tank. Delivery without cable

85501 27,50

③ **Rod tank probe M600** as M400, but for tank heights 400-600 mm.

855011 31,--

Cable for tank probes (not shown) for waste water tanks, 8 m long, 5 x 0.5 mm²

855021 23,80

①

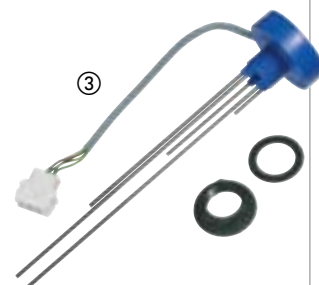


Panel LT 453 The comfort panel with LED display. Display: Battery voltage 1 and 2, level of fresh and waste water tank, pump main switch, 12 V main switch with control LED, 230 V input signal monitoring with LED, 2. Battery low voltage indicator. Size: 106 x 176 x 35 mm.

②



③



Solar controller optionally connectable

Connector housing for Schaudt electric blocks



Connector housing

Set MNL 2+3+4+5-fold
One connector housing each MNL with matching pins for connection of SchaudtElektroblocks

81249 16,60



Connector housing

Set MNL 6+9-way
One connector housing MNL each with matching pins for connection of Schaudt electrical blocks

812492 14,90



Connector housing

Set MNL 6+15-fold
One MNL connector housing each with matching pins for connection of Schaudt electrical blocks

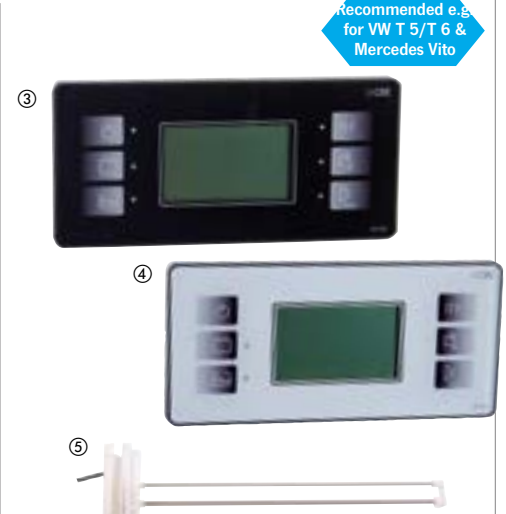
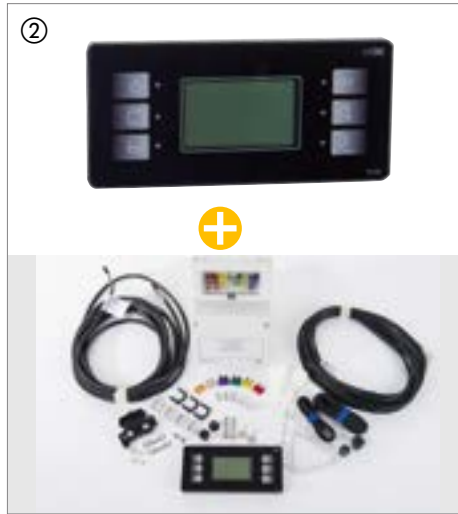
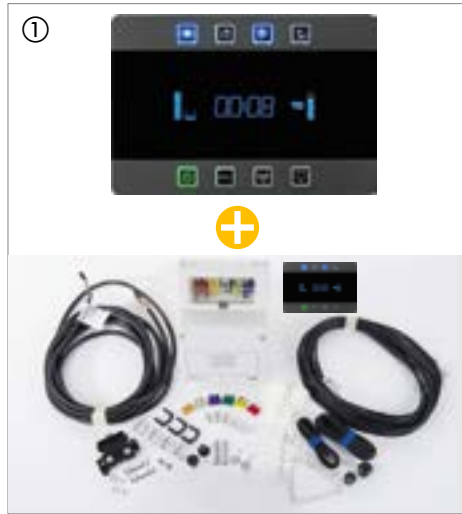
812491 16,70



Connector housing

Set MolexMiniFit 2+3+4-fold
One MiniFit connector housing each with matching pins for connecting additional chargers and the refrigerator to Schaudt electrical blocks

812493 21,--



Recommended e.g.
for VW T 5/T 6 &
Mercedes Vito

Panel Systems PC 210 and PC 380

PC 210/PC 380 complete set Digital with LCD screen, clock and temperature display 12 V main switch with control LED, pump switch with control LED, light switch, temperature display for indoor and outdoor, clock, stepless fresh water display in the display by optional electronic probe for tanks with height 300/260/200 mm. Flashing waste water full indicator in display, 230 V control indicator, battery voltage indicator for starter and living area battery. Display for charging process via alternator. Size display: H:78 x W: 190 x D: 11 mm (total depth 24 mm). Connection box: pump relay to operate even large pumps without problems. Battery disconnect relay for recharging the secondary battery while driving. Relay for switching off the refrigerator when the vehicle is at a standstill. 9 fine fuses for light, refrigerator, pump, heating, step, solar...

Included accessories: cable from module to panel, 2 rubber probes for waste water, cable to fresh water tank and waste water tank probes, fuse switch, 2 pcs. 50 A fuses, indoor and outdoor temperature harnesses with sensor.

① PC 380 complete set (with control panel)	81094	508,--
② PC 210 complete set (with control panel, black)	801372	412,--
③ PC 210 Control panel single, black	801373	186,--
④ PC 210 Control panel single, white	801374	186,--
⑤ Electronic fresh water tank probe		
for tank height 200 mm	80133	49,80
for tank height 260 mm	80134	44,--
for tank height 300 mm	80132	47,80

Control and switch panels incl. switch box. Display of electricity and water. With main switch, and switch for water pump and lighting.



Additional tank probe 400 mm
80138 **21,60**

Universal display and switching systems for 12 V electrical supply

- Any charger connectable
- Electronic detection of the D+ signal, integrated cut-off relay
- Main switch 12 Volt with control LED
- 9 fuse circuits, display for 230 V supply
- Pump switch with relay and control LED
- Refrigerator switches off automatically when vehicle is stationary
- Display for charge via alternator
- Modern in design & technology

① SYSTEM PC 100

Display panel analog, fresh water display with 4 LED, waste water full display with LED, voltage display for on-board and starter battery with 4 LED. Accessories included: tank probe 400 mm for fresh water tank, can be shortened, incl. cable. 2 rubber sensors for gray water tank incl. cable. Connecting cable from junction box to panel. Fuse holder with 2 x 50 A fuses, Size: W 192 x H 78 mm

80136 **294,--**

② **SYSTEM PC110** Microprocessor controlled digital system with LED display with the following functions: Car battery test, auxiliary battery B1 and B2 condition test, drinking water test: Filling condition, waste water tank warning, electronic battery disconnection, control refrigerator: gas/12 V/220 V, protection fuses, control of car battery recharge, protection of auxiliary battery, Size: 170 x 80 mm

80149 **316,--**

③ **SYSTEM PC180** Microprocessor controlled digital system with LED display with the following functions: Car battery test, additional battery B1 and B2 condition test, drinking water test: Filling condition, waste water tank warning, electronic battery disconnection, control refrigerator: gas/12 V/220 V, protection fuses, control of car battery recharge, protection of auxiliary battery, twilight sensor, Size: 190 x 130 mm

80148 **328,--**

CARAVAN CONTROL SET

Digital monitoring and switching system for motorhomes/caravans

- 3.5 inch LCD color display with 8 control buttons
- High-quality, black aluminum case with Gorilla Glass and anti-reflective coating
- WLAN function for remote management with smartphone
- Free app for Android and iOS operating system

The CARAVAN CONTROL SET consists of the Caravan Control Panel SCC8 in black aluminum housing and the power distribution unit SPDU-52. The Caravan Control Panel is operated via 8 control keys, which are assigned with the following functions:

Activation of refrigerator, water pump, heating, light. AC button, inclinometer as well as AUX button and power button.

The Caravan Control Panel can control up to 6 batteries, 14 tanks, 14 Temperatures and 20 independent current sensors (shunts) and control two relay switches.

The SPDU-52 power distribution unit supplies power to other modules and shunts used by the Caravan Control Panel.

Via WLAN technology, many technical details can be called up and controlled via the smartphone. The free app is available for iOS and Android devices.

Scope of delivery: Caravan Control Panel SCC8 with black Aluminum housing, power distribution unit SPDU-52, connection cable.

80269 608,--



PICOone SET

Battery monitor for compact touring vehicles and smaller boats

- 3.5 inch LCD color display with 4 touch keys
- High-quality, black aluminum case with Gorilla Glass and anti-reflective coating
- WLAN function for remote management with smartphone
- Free app for Android and iOS operating system

The PICOone SET consists of the 3.5 inch LCD color display in the black aluminum housing and the SC303 shunt resistor.

The set offers the following (maximum) monitoring options: 1x battery bank with "Real-Time Battery Health" (monitors current, voltage and temperature), 2x battery voltages, 2x tank levels or temperatures. Suitable for systems up to 72 volts. PICOone also has a barograph display that determines and displays precise information about the air pressure and the current trend.

The PICOone SET is the perfect complete solution for battery and tank over-monitoring for motorhomes, smaller boats and yachts with one service battery bank with up to 300 A at 12/24/48/60/ and 72 V, one or two engine/spare battery banks and up to 2 tanks.

Via WLAN technology, many technical details can be called up and controlled via the smartphone. The free app is available for iOS and Android devices.

Scope of delivery: PICOone battery monitor, active shunt resistor SC303, connection cable. (Not expandable with other shunts and modules)

80169 341,--



OPTIONAL ACCESSORIES

for 80169 + 80269

SDI01 digital inclinometer with manual calibration

For the CARAVAN CONTROL SET and PICOone control systems. Inclinometer for vehicle leveling. Plug-and-play installation. Operating voltage: 6-35 V, current consumption at 12 V: 1 mA, resolution: 0.1°

82193 103,--



LOAD HERE
THE FREE
SIMARINE APP
HERUNTER:





10 inch
Touch display



Arvicore
Control unit



NEW
2023

Innovative control system for Campervans & Motorhomes

Intelligent monitoring and control of all accessory devices and the entire on-board electronics via the 10-inch color touchscreen or via smartphone.

- Monitor and control via the color touch screen all devices in the vehicle such as: Heating / Boiler / Batteries / Chargers / Solar controller Inverter / Refrigerator / Stove / Lighting circuits and much more
- Compatible with 99% of brands & devices on the market
- More than 70 digital, analog, sensor, switching, measured value and communication inputs and outputs
- Free app for Android and iOS operating systems for remote management with the smartphone/tablet/computer

(The vehicle must be equipped with mobile data for this purpose)



TEST SYSTEM HERE!

Scan the QR code and test the switching system in full on the Arvikon website.
Or alternatively via the website:
<https://arvikon.com/en/leisure/simulador/>

Control system complete set:



10" touch display



Control unit Arvicore



Connection material

- 10 inch color touchscreen (screen diagonal 25.4 cm)
- Aluminum frame matt black, noble brushed look
- Glass display with anti-reflective coating
- Antishock technology
- Display languages: DE / EN / FR / ES / IT / NL (more languages will follow in 2023)
- Fanless for silent operation
- Arvicore control unit for connecting all terminal devices in the vehicle
- Over 70 communication inputs and outputs
- Compatible with almost all camping accessories brands and devices
- CI bus compatible and plug & play

Scope of delivery: 10 inch touch display, Arvicore control unit, 19 connectors with 2 to 8 pins, 2 temperature sensors, 1x 10m USB- cable, 1x display connection cable, 10 rubber tank sensors, 4x M6 nuts.

80276

2699,--

Accessories:

Xpand Arvishunt
3 in 1 expansion module



- Multi-purpose shunt for devices that have over 40A current draw
- Temperature monitoring to protect individual devices or batteries
- Xpand Arvishunt has 3 modes:

Power Manager mode:

Full control (via display) of inverters, chargers, DC-DC boosters and solar controllers with high current consumption (up to 300-400 A each).

Battery Manager Mode:

Can manage up to 4 batteries simultaneously (including lithium) including state of charge (SoC) and state of health (SoH), currents, voltage, temperatures, battery protection.

Shunt Manager Mode:

Can control up to 4 shunts (2x 400A, 2x 300A) independently and fully monitor on display including currents, voltage, temperature and relay outputs.

80278

779,--



12V
24V

Fuse panel 4 S

With 4 circuit breakers (6, 8, 10, 12 A) to protect individual circuits
Size W47 x H85 x D75 mm

801220 69,95



12V

Switch panel

With 4 switches (each max. 8A) with LED display Size W47 x H85 x D25 mm.
Switch panel 4 S, 12 Volt

801300 44,50



12V
24V

Switch panel 16 A

Single switch (max 16 A)
Size W47 x H85 x D45 mm
Switch panel S, 16A

801303 20,50



12V
24V

Switch panel 2x16 A

With two single switches (each max. 16 A) Size W 47 x H 85 x D 45 mm
Switch panel S, 2 x 16 A

801304 27,50



12V
24V

Main control panel

On/off switch with 20 A overcurrent protection function
Size W 47x H 85 x D 75 mm
Main switch S, 20 A

801305 53,80



12V
24V

Socket panel

For 12 volt consumers with DIN plug (ISO 4165)
Size W 47 x H 85 x D 65 mm
Socket Panel S

801306 23,50



12V

USB charging panel S

Dual charger 5 V/2.5 A
Size W 47 x H 85 x D 42 mm,
USB charger panel S

801292 63,50



Front panel bezel S

For switches or as cover frame Front panel cover S (85 x 47 mm)

801012 10,50



12V
24V

Fresh water tank display

With LED bar display for fresh water tanks Size: W 47 x H 85 x D 20 mm
Fresh water tank display S

801160 53,-



12V
24V

Waste water tank display

With LED bar display for wastewater tanks Size: W 47 x H 85 x D 20 mm
Wastewater tank display S

801170 50,60



12V
24V

Holding tank display

With LED bar indicator for holding tanks Size: W 47 x H 85 x D 20 mm
Holding tank indicator S

801180 55,-



12V

Duo battery tester

With LED display of the on-board and starter battery (12 V)
Size: W 47 x H 85 x D 18 mm Duo
Battery Tester S

801152 64,40



With automatic fuses,
Main switch and
Double USB socket (2x 2.5A)



Reimo compact panel 713

Switching off the 12 V system. 4 fused outputs (circuit breaker 1x 12 A/3 x 10 A). Central 12 V distribution from the panel. Integrated standard socket 12 V/16 A*, on/off main switch 12 V/20 A (main switch is also 20 A fuse). Size: H:72 x W: 155 x D: max. 95 mm. (*If the socket is loaded over 10 A, it must be fused separately via an extra line, up to 16 A maximum!)

800190 139,-



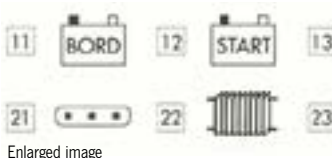
Plastic surface mount housing

For the LCD device series on page 991.

For surface mounting.

Size: W 87 x H83 x D 27 mm.

Color silver 801013 19,95



Pictogram foil

For switch labeling. Internal. Signs, transparent, black symbols (ca. 12 x 10 mm), self-adhesive, pre-cut, abrasion-resistant.

801200 10,50

LCD Battery Computer S with smart shunt

- Voltage starting and on-board battery (7-32 V)
- Battery current (charge/discharge in A)
- Battery remaining capacity (in % and Ah)
- Residual term (in h)
- Can also be used as main switch and deep discharge protection

Suitable for all battery types (incl. LiFePO4) with 12 V/24 V. Can also be used as a battery monitor (with switch unit 40/100) due to freely programmable switching points (%). Panel Size: W 80 x H 85 x D 25 mm. Supplied with precision shunt, ground strap and plug-in digital cable.

LCD Battery Computer 100S Smart Shunt	801094	195,-
LCD Battery Computer 200S Smart Shunt	801061	215,-
LCD Battery Computer 400S Smart Shunt	801031	258,-



LCD voltmeter S

To display the voltage of the on-board/starter battery. Size: W 80 x H 85 x D 25 mm.

801151 112,-



12V
24V



12V

Panel tank and battery

- All information at a glance
- Integrated main and pump switch

Info panel for tank and battery monitoring. Display of 2 battery voltages and level of 2 water tanks. Pump main switch 10 A with control LED and main switch 16 A. Supplied without tank probes. Size: W 220 x H 55 x D 18 mm.

801230 117,-



12V
24V

Votronic Power Control Merkur Multi-Panel System for Motorhomes

Without fuel gauge (especially for CamperVans), but with LCD solar computer, voltage display for start and on-board battery, indoor and outdoor thermometer, clock and main switch via external relay with voltage controlled deep discharge protection for the on-board battery. Also with double USB charging socket. Size W200 x H65 x D30mm.

80263 242,50

LCD Solar Computer S

- Current solar power (in W)
- Current solar power (in A)
- Voltage on-board battery (in V)
- Charged solar capacity (in Ah)
- Charged solar energy (in kWh)

Convenient display for all Votronic SR and MPP solar controllers (from 2013). Totalized solar capacity (Ah) and energy (kWh) can be reset at the touch of a button. Minimum power consumption (standby 3 mA, illuminated 30 mA). Size W 80 x H 85 x D 25 mm.

810241 104,50



Bluetooth Energy Monitor can be found on page 983

LCD Charge Control S

- Active charging source (mains, charging converter, solar)
- Control mains charging function (AC Power Limit)
- Battery charging phase
- Battery voltage on-board/start battery
- Current charging current
- Solar computer function

Convenient control and operating element for Votronic series VBCS-Triple. Plug-in connection via control cable 5 m. Large, bright graphic display. Size W 80 x H 85 x D 24 mm.

① LCD Charge Control S for VBCS Triple

801153 98,50

② LCD Charge Control S for VCC

801154 93,70



12V

Votronic Power-Control Jupiter Multi-Panel System for Motorhomes

- Information as numerical values and bar graphs
- Simple, intuitive operation
- Large white backlit graphic display
- compact design
- easy assembly

With full function of LCD battery computer & solar computer (see above), indoor and outdoor thermometer, clock, tank indicator for fresh and waste water tank, pump main switch (up to 16A) and main switch. Including programmable deep discharge protection (% remaining capacity), with double USB charging socket (5 V/2.5 A).

VPC Jupiter 100 with Smart Shunt 100A	801155	317,-
VPC Jupiter 200 with Smart Shunt 200A	801156	345,-
VPC Jupiter 400 with Smart Shunt 400A	801157	440,-



12V
24V

Votronic Power-Control Terra Multi-Panel System for Motorhomes

With voltage indicator for start and on-board battery, tank indicator for fresh and waste water tank, LCD solar computer, pump main switch and main switch via external relay with voltage controlled deep discharge protection for the on-board battery. Size W200 x H65 x D28mm.

80260 217,-



①



②



Display panels

① CBE PT632 touch display to test two 12 V batteries.

Includes frame and a wall spacer. Size: 60 x 60 mm

85300

90,--

② Battery test panel with 4 LEDs for connecting a battery.

Includes frame and spacer plate for "surface mounting".

Slate **82145** **28,30**

Brown **82148** **29,30**

③ Tank sensor. Not shortenable.

Height 20 cm **80133** **49,80**

Height 30 cm **80132** **47,80**



Battery tester

BT1201 Enduro 12 V, black / gray: for permanent installation in the caravan, motor home or boat directly on the battery: ideal for supply batteries or batteries in vehicles with long standing time. Voltage range: 8-16 volts, current consumption: max. 70 mA, battery types: lead-acid, AGM, gel. Color: black / gray. Size: ca. L 60 x W 50 x H 20 mm

80157

14,95

BÜTTNER

↔DOMETIC

①



②



① MT NU-3600 Grid Switching for Sine Wave Inverter

Intelligent motorhome mains priority circuit with very high switching capacity. Suitable for all sine wave inverters. Mains switching ensures that the optimum 230 V supply is always available on the interior sockets. Controlled by a battery computer MT 5000 iQ.

The following connection options are available:

- Mains/shore power input
- Inverter input
- Output for charger and refrigerator etc.
- Output to indoor sockets
- Output 230 V after control 12 V
- Signal output for operating status

Technical data: Input voltage: 230 Volt, 16 A (3600 VA), protection class IP55. Size: (W x H x D): 160 x 145 x 77 mm **801070** **182,50**

② MT NU-2300 Grid Switching for Sine Wave Inverter

External mains priority circuit with a switching capacity of up to 2300 watts. Suitable for sine wave inverters in motorhomes without integrated mains switching. Either the inverter is connected through to the indoor sockets or, if available, 230 V from the outdoor power supply.

Technical data: Input voltage 230V, 10 A (2300 VA), protection class: IP55. Size: (W x H x D): 113 x 93 x 55 mm. **801071** **121,--**

BÜTTNER

↔DOMETIC

12V
24V



Battery computer with Hall sensor

MT iQ BasicPRO The basic model with induction measurement provides information on the current currently flowing, the remaining time available and the capacity (in % and Ah) still available in the on-board battery(ies). Uncomplicated assembly and programming. Includes induction sensor and surface mount housing. Voltage: 12/24 V, Size (WxHxD): 90 x 95 x 20 mm, installation depth: 20 mm. Color black **80164** **249,--**

NDS | ↔DOMETIC



Priority circuit for inverter

Automatic switching between shore power and power from the inverter. As soon as external power is applied, e.g. from the campsite, inverter operation is interrupted. Without external power, the inverter works again and supplies the 230 V consumers. There is a 2. High-load output that only works when external power is applied (e.g. for operating chargers or air conditioners). An overload of the inverter is thus avoided. For inverters up to 2,300 W power.

82192

145,--

Power Inverter - operate 230V devices at 12 V with sinusoidal voltage



- Use of many common household appliances
- USB port 5 V ~ 2.1 A
- Battery protection through undervoltage/overvoltage shutdown
- Reverse polarity protected
- Integrated overload protection
- Overtemperature shutdown ($> 75^{\circ}\text{C}$)



Figure	①	②	③	④
Type	Power Inverter 200 W	Power Inverter 400 W	Power Inverter 600 W	Power Inverter 1000 W
Input voltage DC	12 V	12 V	12 V	12 V
Input voltage range	10,5 V-16 V	10,5 V-16 V	10,5 V-16 V	10,5 V-16 V
Nominal power	200 W	400 W	600 W	1000 W
Peak power short term (2S)	400 W	800 W	1200 W	2000 W
Output voltage ($\pm 5\%$)	220 - 240 V	220 - 240 V	220 - 240 V	220 - 240 V
Shutdown threshold/undervoltage	10,0 \pm 0,5 V	10,0 \pm 0,5 V	10,0 \pm 0,5 V	10,0 \pm 0,5 V
Quiescent current	<0,17 A	<0,21 A	<0,3 A	<0,33 A
Efficiency	>90%	>90%	>90%	>90%
Cooling	Fan	Fan	Fan	Fan
Fuse	yes	yes	yes	yes
Connection for remote control	no	no	no	no
USB 5 V ~ 2.1 A	yes	yes	yes	yes
Socket	1	1	1	1
Size (L x W x H) in mm	120 x 100 x 50	120 x 100 x 50	150 x 100 x 50	210 x 150 x 70
Weight	ca. 0.6 kg	ca. 0.7 kg	ca. 1 kg	ca. 2 kg
Art. No.	82291	82292	82293	82294
Price	39,90	46,90	74,90	99,90

*Approved for installation in vehicles (Emark and CE certified).

SINE WAVE INVERTER WITH PURE SINE WAVE VOLTAGE

CARBEST
INNOVATIONS FOR MOBILE LIFE

Sine Power Inverter for sensitive 230V devices



12V
INPUT

230V
OUTPUT

USB
2.1A

INCL.
CONNECTION-
CABLE



Tested with the
Dometic FreshJet
2200 air conditioner
(1500W + 2000W + 3000W)
Watch video here



①
300
WATT

②
700
WATT

③
1000
WATT

④
1500
WATT

⑤
2000
WATT

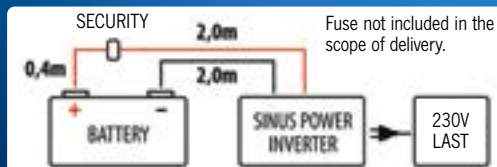
⑥
3000
WATT

Watch video here



Tested with
Nespresso®
Capsule machine
(2000W + 3000W)

All
Connection cable
included in
delivery contain:
2x 2m + 1x 0,4m



Fuse not included in the
scope of delivery.

Matching cable remote controls

For ① with 4.5 m cable

81949 24,90

For ② ③ ④ ⑤ ⑥ with 5 m cable

81947 24,90



- **Extremely high starting current, up to 3 times the power output**
- **Convert 12 volt battery power to 230 volt**
- **No restriction in operation, suitable for measuring computer or microwave device**
- **Switch-mode technology: Almost noiseless - light & compact**
- **Battery protection due to undervoltage cutoff**
- **Overtemperature shutdown (ca. 60° C)**
- **Reverse polarity protected**
- **Integrated overload protection**

Automatic load detection - The inverter switches to a power saving mode if no power is drawn for one minute. Fan - If the temperature is too high, the built-in temperature-controlled fan switches on automatically for cooling. Aluminum housing - Suitable for floor & wall mounting.

NOTE: Required fuse

For the installation of the inverters of this page we recommend a 12 V fuse
300W=50A / 700W+1000W=100A / 1500W=150A / 2000W=200A / 3000W=300A.

Suitable fuses can be found on page 1009.

Figure	①	②	③	④	⑤	⑥
Type	PS300U	PS700U	PS1000U	PS1500U	PS2000U	PS3000U
Input voltage DC	12 V	12 V	12 V	12 V	12 V	12 V
Output voltage (±5%)	230 V	230 V	230 V	230 V	230 V	230 V
Continuous power	300 W	700 W	1.000 W	1.500 W	2.000 W	3.000 W
Nominal power	300 W	700 W	1.000 W	1.500 W	2.000 W	3.000 W
Peak power shortz.	600 W	2.100 W	3.000 W	4.500 W	6.000 W	9.000 W
Shutdown threshold/undervoltage.	10,0±0,5 V	10,0±0,5 V	10,0±0,5 V	10,0±0,5 V	10,0±0,5 V	10,0±0,5 V
Quiescent current	≤0,6 A	≤0,3 A	≤0,4 A	≤0,5 A	≤0,6 A	≤0,8 A
Efficiency	≥90%	≥90%	≥90%	≥90%	≥90%	≥90%
Connection remote control	yes	yes	yes	yes	yes	yes
USB port/ampere	yes/2.1A	yes/2.1 A	yes/2.1 A	yes/2.1 A	yes/2.1 A	yes/2.1 A
Sockets	1	1	1	2 (1x Schuko, 1x Universal)**		
3 connection cables included	2x 2m & 1x 0,4m (4mm²)	2x 2m & 1x 0,4m (16mm²)	2x 2m & 1x 0,4m (25mm²)	2x 2m & 1x 0,4m (50mm²)	2x 2m & 1x 0,4m (50mm²)	2x 2m & 1x 0,4m (50mm²)
Size (LxWxH) mm	260x150x60	255x186x90	317x186x90	320x152x105	320x152x105	475x250x110
Weight	1,6 kg	2,4 kg	3,0 kg	4,7 kg	4,8 kg	6,5 kg
Art. No.	82281	82285	82282	82286	82283	82284
Price	129,-	249,-	349,-	499,-	679,-	849,-

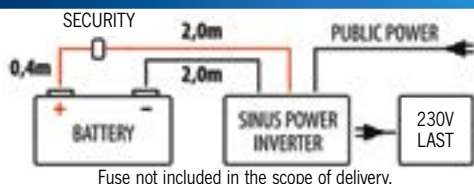
*Approved for installation in vehicles (Emark and CE certified). **Not designed for simultaneous operation!

CARBEST
 INNOVATIONS FOR MOBILE LIFE

Sine Power Inverter with mains priority circuit

12V
INPUT230V
OUTPUTBUILT-IN POW-
ER PREVIOUS
SWITCH2 x USB
2.1AINCL.
CONNec-
TION-
CABLE① 1000
WATT② 1500
WATT③ 2000
WATTCable
diameter
50 mm²Cable
diameter
25 mm²Cable
diameter
50 mm²

Watch video here


 Tested with
 Nespresso®
 Capsule machine
 (2000W)
**NOTE: Required fuse**

For the installation of the inverters of this page we recommend a 12V fuse.
 1000W=100A / 1500W=150A / 2000W=200A
 Suitable fuses can be found on page 1009.

Figure	①	②	③
Type	Sine Power Inverter 1000 W	Sine Power Inverter 1500 W	Sine Power Inverter 2000 W
Input voltage DC	12 V	12 V	12 V
Output voltage (±5%)	230 V	230 V	230 V
Continuous power	1000 W / 80 A	1500 W	2000 W / 160 A
Nominal power	1000 W	1500 W	2000 W
Peak power shortz.	2000 W	3000 W	4000 W
Shutdown threshold/undervoltage.	10,5±0,5 V	DC 10.5±0.5 V	DC 10.5±0.5 V
Quiescent current	≤0,45 A	≤0,75 A	≤0,75 A
Efficiency	>90%	>90%	>90%
Switchover time 230 V to 12 V (ca.)	≤ 8 ms	≤ 10 ms	≤ 10 ms
Sockets	1x Schuko, 1x Universal**	1x Schuko, 1x Universal**	1x Schuko, 1x Universal**
3 connection cables included	2x 2m & 1x 0,4m (25mm²)	2x 2m & 1x 0,4m (50mm²)	2x 2m & 1x 0,4m (50mm²)
Battery charger (Gel/AGM)	10 A	15 A	15 A
Size LxWxH in mm (ca.)	330 x 230 x 110 mm	400 x 230 x 110 mm	400 x 230 x 110 mm
Weight	ca. 3.6 kg	ca. 5.3 kg	ca. 5.7 kg
Art. No.	82277	82278	82279
Price	399,-	589,-	699,-

*Approved for installation in vehicles (E-mark and CE certified). **Not designed for simultaneous operation!

Integrated 230 volt mains priority circuit:

As soon as 230 volt shore power (e.g. from the camping site) is available, the inverter operation is automatically interrupted broken. The inverter operation is immediately resumed as soon as no more external power is available.

• Conversion from 12 V to 230 V pure sinusoidal voltage**• 3-Stage Battery Charger for Gel & AGM Batteries****• Battery protection due to undervoltage cutoff****• Reverse polarity protected****• Integrated overload protection****• Temperature controlled fan****• Aluminum housing, lightweight yet strong****• USB port: 2x 2.1 A****• Connection cable and cable remote control included**

Spare/extension cable

Pre-assembled with 2 ring eyelets.

± 25 mm², 2 x 200 cm 81940 46,90

± 50 mm², 2 x 200 cm 81941 76,90

Cable remote control (as spare part)

81946 24,90

HIGH TECH
DESIGNdetachable
control panel

Sine wave inverter without compromise

- Stand-by functions
- Mains switching integrated
- Remote control via control panel
- Operating status display
- Automatic shutdown
- High overload capacity
- High efficiency
- Low overall height (70 mm)
- Installation vertical or horizontal
- Thermally controlled whisper fans

All units are overload capable and feature whisper fans and all monitoring and shutdown functions. The control panel with display functions can be removed and mounted in the vehicle as a remote control. An integrated load detection system switches the devices into a power-saving mode when not in use and, if required, also switches them off completely automatically. With socket and battery cable (1.2 m) and a cable extension for control panel (5 m).

Technical data	MT 600SI-N	MT 1200SI-N	MT 1700SI-N
Input voltage	10,5-15 V	10,5-15 V	10,5-15 V
Output voltage	230 V AC 50 Hz quartz stabilized		
Continuous power/ Peak power	600 W/ 1200 W	1200 W/ 2000 W	1700 W/ 3000 W
Current consumption standby	0,2 A	max. 0.2 A	max. 0.2 A
Mains switching	yes	yes	yes
Weight	2650 g	5950 g	7100 g
Size (L x W x H) mm	335 x 270 x 70	400 x 299 x 70	480 x 299 x 70
Item no.	82198	82199	82169
Price	845,90	1263,---	1425,--
Accessories:	Cable fuse set MT 1200SI/SI-N		
Item no.	821980	821990	
Price	51,--	51,--	



Remote control included

Sine wave inverter PowerLine

PL series 300 W / 600 W / 1500 W / 2000 W

- Developed for mobile use
- High power sine wave inverter

The PowerLine inverters from BÜTTNER ELEKTRONIK supply a pure sinusoidal current-tension. All devices are equipped with a remote control to change the alternating-to be controlled from the interior. In addition, the devices can also be started via a control input. Either directly via a 12 V signal or via a battery computer MT 5000 iQ. This means that even without a grid connection, an e-bike charger can be connected on board directly via the inverter in the event of a power surplus (e.g. solar) be loaded. All safety and monitoring functions are integrated.

Delivery ready for installation: all inverters are delivered ready for connection with socket, remote control (cable length 5 m) and battery connection cable with integrated fuse.



Technical data	MT PL 300 SI	MT PL 600 SI	MT PL 1500 SI	MT PL 2000 SI
Input voltage	10,5 - 15,5 V	10,5 - 15,5 V	10,5 - 15,5 V	10,5 - 15,5 V
Continuous power	300 W	600 W	1500 W	2000 W
Weight	ca. 1,6 kg	ca. 2.1 kg	ca. 3.6 kg	ca. 5,65 kg
Size (W x D x H) mm	165 x 220 x 85	165 x 250 x 85	175 x 335 x 100	254 x 463 x 119
Item no.	821900	821901	821902	821903
Price	279,-	399,-	699,-	929,-



Combination packages

Sine wave inverter PowerLine + grid switching

The combination package is perfectly matched to each other and ensures that 230 V is always available on the interior sockets, regardless of whether the inverter is switched on or shore power is plugged in.



	Combi package 1500 Watt	Combi package 2000 Watt
Inverter	MT PL 1500 SI	MT PL 2000 SI
Input voltage	10,5 - 15,5 V	10,5 - 15,5 V
Continuous power	1500 W	2000 W
Weight	ca. 3.6 kg	ca. 5,65 kg
Size (W x D x H) mm	175 x 335 x 100	254 x 463 x 119
Mains switching	MT Nu-3600	
Input voltage	230 V, 16 A (3600 VA)	
Size (W x D x H) mm	160 x 145 x 77	
Item no.	821915	821916
Price	859,-	1089,-

McCAMPING
Outdoor Equipment

FULL SINE POWER AT TOP PRICE

Sine wave inverter 1500 W/2000 W


12V
INPUT

230V
OUTPUT

USB
2.1A

INCL.
CONNec-
TION-
CABLE

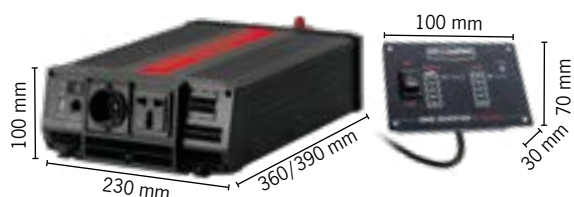
INCL.
CABLE
REMOTE
CONTROL


- Conversion from 12 V to 230 V sine voltage
- USB port 5 V, 2.1 A
- Inclusive Connection cables (2x 0,8m, Ø25mm² / Ø35mm²)
- Wired remote control included

With the McCamping inverters you convert 12 V on-board current of your camper or motorhome into 230 V sine voltage. Thus, common devices such as a coffee maker, TV or hairdryer can also be used in camping vehicles as usual. Integrated USB port (5 V, 2.1 A). Safety is provided by the verpolarity, overvoltage and short-circuit protection. The integrated fan protects against overheating. Acoustic warning signal at low battery level.


 from **299,-**


Type	SI-1500	SI-2000
Input voltage DC	12 V	12 V
Output voltage (±5%)	230 V	230 V
Continuous power	1500 W	2000 W
Peak power short term	3000 W	4000 W
Connection cable remote control	yes	yes
USB port/ampere	5V/2.1A	5V/2.1 A
Sockets**	1x Schuko 1x Universal	1x Schuko 1x Universal
Connection cable included	2x 0,8 m (25 mm ²)	2x 0,8 m (35 mm ²)
Size inverter (LxWxH) mm	360x230x100	390x230x100
Size control panel (LxWxH) mm	100x70x30	100x70x30
Weight ca.	3,9 kg	4,0 kg
Item no.	82270	82271
Price	299,-	499,-



*Approved for installation in vehicles (Emark and CE certified). **Not designed for simultaneous operation!

SINE WAVE INVERTER / PRIORITY CIRCUIT / REMOTE CONTROL





High quality sine wave inverter
for professional continuous use

- Switch-mode technology: compact, lightweight, robust and reliable
- Protection against over/under voltage, overload, overheating
- Power saving control with automatic switch-off
- Integrated mains priority circuit with 10 A automatic circuit breaker
- Power and temperature controlled fan with speed control
- Control panel removable and externally mountable (incl. 5 m cable)
- Selectable power saving mode: continuous operation, automatic standby, OFF

Type	① NEW: SMI 600-NVS	② SMI 1200 NVS	③ SMI 1700 NVS
Input/output voltage	12 Volt / 230 Volt	12 Volt / 230 Volt	12 Volt / 230 Volt
Continuous power	600 watt	1.200 watt	1.700 watt
Short power	840 watt	1.400 watt	2.100 watt
Peak performance	1.200 watt	2.000 watts	3.000 watts
Standby consumption	5 watt	8 watt	10 watt
Weight	2,3 kg	4,0 kg	5,2 kg
Size (LxHxD) mm	332 x 74 x 139	265 x 90 x 305	265 x 90 x 440
Art. No.	82213	82200	82203
Price	616,--	939,--	1025,--

Cable set (can be shortened) 2 x Ø 25 mm² eyelets M8 on one side for connection to pole terminals				
For SMI 1200 NVS, L 100 cm	81997	47,80	For SMI 1700 NVS, L 100 cm	81998 61,90
For SMI 1200 NVS, L 200 cm	819971	82,70	For SMI 1700 NVS, L 200 cm	819981 94,60



**Priority circuit
for Dometic inverter**

230 Volt mains priority circuit
With the priority circuit, the inverter jumps to loop-through operation as soon as 230 volts external current is present. If the external current is disconnected, the converter switches back to standby mode. For all transducers up to max. 2300 watts.

82900 155,--



**Remote controls for Dometic inverter
DSP-T versions, see right side**

① **Remote control DSP-RCT**
for devices from 1000 W power. Display On, On-Off switch

81956 83,--

② **Comfort remote control . DSP-EM**
for inverters. Display under/over voltage, overload, on/off switch (only for DSP-T and DSP-C series).

81957 155,--

Techn. Subject to changes



SinePower DSP Sine wave inverter - 230 volts on board

- Pure sine wave voltage - also suitable for sensitive 230 volt devices
- Shutdown in case of overload, overheating, overvoltage and undervoltage
- Low noise fan - load and temperature controlled
- Energy-saving standby mode (DSP models from 600 watts)

Technical data	DSP 212	DSP 412	DSP 612	DSP 1512	DSP 2012
Continuous power (25°C)	150 watt	350 watt	600 watt	1500 watt	2000 watts
Peak power (3 sec.)	300 watt	700 watt	1200 watt	3000 watt	4000 watt
No-load current consumption	0.6 A/0.4 A	0.6 A/0.4 A	0,8/0,5 A	1,2/0,6 A	1,5/0,8 A
Standby consumption	--	--	<0.3 A/<0.2 A	0.4 A/0.25 A	0.5 A/0.3 A
Remote control	--	--	Included in delivery (DSP models from 600 Watt)		
Size ca. (mm)	126 x 50 x 149	126 x 50 x 202,5	230 x 80 x 220	272 x 97 x 382	272 x 97 x 402
12 DC (10-16 V)	82995	82996	82990	82992	829922
Price	139,--	149,--	335,--	689,--	879,--

Technical data	DSP 1812T	DSP 2312T	DSP 3512T
Continuous power (25°C)	1800 watt	2300 Watt*	3500 Watt*
Peak power (3 sec.)	3200 watt	4000 watt	6000 watt
No-load current consumption	2.5 A/1.3 A	2.8 A/1.4 A	3.6 A/1.8 A
Standby consumption	<0.2 A/<0.1 A	<0.2 A/<0.15 A	<0.2 A/<0.15 A
Connection for remotecontrol*	12 V (10.5 V - 16 V) 24 V (20 - 33 V)		
Size ca. (mm)	284 x 118 x 405	284 x 118 x 481	324 x 122 x 490
12 DC (10-16 V)	829920	82993	82994
Price	1119,--	1815,--	2365,--

The new **sine wave inverters** of the **SinePower DSP** series provide a pure sine wave voltage that optimally supplies even sensitive 230-volt devices. Due to the wide input voltage range, they also work perfectly in modern EURO 6 vehicles.

In the event of overload, overheating, overvoltage or undervoltage, the clever inverters switch off as a precaution - and switch on again automatically when everything is back in the green.

The integrated fan flexibly adapts to the load and temperature conditions and therefore runs pleasantly quiet.

Please order at the same time: Connection cable for SinePower series

For model	DSP 1312T	DSP 1812T	DSP 2312T	DSP 3512T
Cable type	35 mm ²	35 mm ²	70 mm ²	70 mm ²
Length	1,5 m	1,5 m	1,0 m	1,0 m
	82910	82910	82911	82911
Price	77,--	77,--	105,--	105,--

*10 minutes continuous power

12/24 VOLT PLUGS / SOCKETS



**12V
24V**

Power plug 20 A

- Loadable up to 20 amps

Up to 20 A / 12-24 V, with 1.2 m cable 2 x 2.5 mm². For connecting coffee makers, kettles, heaters, etc. Max. 20 A

81173 13,20



PRO CAR

8A

Without cap as Standard plug usable

Universal plug 8 A

180° angled safety universal plug 8 A with ON/OFF switch. Fits in cigarette lighter and standard sockets. Cable connection by solder contacts.

810151 10,95



PRO CAR

8A

Without cap as Standard plug usable

Universal plug

Safety universal plug with strain relief and screw contacts up to 2.5 mm². 12-24 V.

8 A 81012 6,70



PRO CAR

16A

Without cap as Standard plug usable

Universal plug

With force guided strain relief 16 A/12-24 V. With screw contacts up to 2.5 mm² and fold-out support.

16 A 810121 6,95



PRO CAR

**12V
24V**

Without cap as Standard plug usable

USB adapter

Angle USB adapter 12 volt to 5 volt USB. Output voltage 2 x 2.1 A. With power indicator.

81194 24,50



PRO CAR

**12V
24V**

Without cap as Standard plug can be used

Universal angle plug

with function control. Integrated bus-mounting fuse 7.5 A/12-24 V, up to max. 1.5 mm², 7.5 A

81055 13,40



PRO CAR

**12V
24V**

Standard plug 12/24 V

max. 8 A with solder contacts, suitable for DIN sockets for connecting additional devices up to 8 A.

81175 4,40



PRO CAR

**12V
24V**

Standard plug 15 A

With screw contacts, for connecting 15 A auxiliary devices of all types, 12-24 V, suitable for all standard sockets according to DIN EN ISO.

81138 7,80



PRO CAR

**12V
24V**

Adapter

Adapter for standard sockets 16 A/12/24 V. The adapter enables the operation of devices with universal plugs (Ø 21mm) in small DIN sockets (Ø 12mm).

81174 12,30



PRO CAR

Power socket

Power socket with screw thread 20 A loadable with cable Ø 2.5 mm² (15 A with cable Ø of 1.5 mm²). Inner Ø 21 mm, mounting hole 27.8 mm. 12-24 V.

81177 9,50



PRO CAR

**12V
24V**

Power socket

Power socket 12-24 V with mounting plate for front installation. 20 A with a cable Ø of 2.5 mm², 15 A with a cable Ø of 1.5 mm². Inside Ø 21 mm, installation opening 27.8 mm. L 60 x W 45 mm.

81140 11,10



PRO CAR

**12V
24V**

DIN built-in standard socket

- With hinged lid

16 A with metal housing, mounting hole 18 mm, inner Ø 12 mm, blade terminals 6.3 mm.

81015 9,90



PRO CAR

Connection cable

Universal plug for e.g. TFT devices. 8 A with 2 m cable 2 x 0.75 mm² and hollow device plug 2.5 x 5.5 mm.

81189 13,75



PRO CAR

Connection cable

- For DVD, SAT receiver

Universal plug 2 A with 2 m cable 2 x 0.4 mm² and hollow device plug 2.1 x 5.5 mm.

81188 12,90



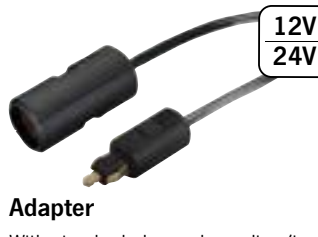
PRO CAR

**12V
24V**

Power plug, max. 16A

Coupling (inside Ø 12 mm) and cigarette lighter plug. 12/24 V, max. 16 A, cable 2 x 1.5 mm², flat cable, length 0.25 m.

81142 13,10



PRO CAR

**12V
24V**

Adapter

With standard plug and coupling (inner Ø 21 mm), 12/24 V, max. 5 A, cable 2 x 0.75 mm² flat, length 0.25 m.

81192 11,10



PRO CAR

Universal extension

Cable: 2 x 0.75 mm² flat cable. Length: 4.0 m. With 8 A safety universal plug & universal coupler (Inside Ø 21 mm)

83519 19,95



PRO CAR

Standard extension

Cable: 2 x 0.75 mm² flat cable. Length: 4.0 m. With 8 A safety universal plug & standard coupling.

83520 16,95



**12V
24V**

Surface mount socket with 2 USB ports

2 power sockets 12/24 V (inner Ø 21mm) and 2 USB ports 12 V DC/5 V DC USB: 2 x 2.5 A.
Size: L x W x H: 85 x 95 x 33 mm.
Housing made of robust plastic.

811781 39,90



3s build up can

12/24 V, max. 20 A with cable cross-section 2.5 mm², 16 A with 1.5 mm². Inside Ø of sockets 21 mm.

81179 28,95



Powerdose

Surface-mounted power socket 12/24 V, 20 A, inner Ø 21 mm, flat terminals 6.3 mm suitable for universal plugs.

81181 11,10



Power coupling

12/24 V max. 20 A, Ø cable 2.5 mm², 16 A at 1.5 mm², with base plate for the installation of flying leads, inside Ø 21 mm with flat plug connection 6.3 mm.

81141 12,60



Surface mounted socket

With cover & flat plug connection 6.3 mm, for standard and universal plugs, max. 16 A, 12/24 V, TÜV tested and monitored, with contacts according to DIN ISO 4165. 16 A.

81057 9,40



CARBEST
INNOVATIONS FOR MOBILE LIFE

**12V
24V**

Twin coupling bendable

12/24 V, for cigarette lighter socket, can be angled in 2 directions up to 90°. max. 10 A, with fuse and LED operation indicator.

81321 2,50



CARBEST
INNOVATIONS FOR MOBILE LIFE

12V

Multiple distributors

Each with 2 USB ports. 5 V, Max. 5 A, 2.1 A. 20 cm spiral cable, extendable up to ca. 1 m. With fuse and red LED power indicator.

2-fold distributor **81323 8,50**
3-fold distributor **81317 8,50**



**12V
24V**

Standard coupling

- For do-it-yourself extension cables
- For 12 or 24 volt

For building individual extensions, max. 16 A, Ø 12 mm

810171 7,10



① **Built-in socket**

With cover and flat plug connection 6.3 mm, max. 16 A, 12/24 V, TÜV tested and monitored, according to DIN EN ISO 4165. Installation opening 18 mm. 16 A.

81183 6,70

② **Waterproof socket**

Waterproof DIN built-in standard socket with screw cap 12-24 V installation opening: 18.4 mm. Temperature resistant: -40°C to 105°C. 16 A.

81020 26,40



CARBEST
INNOVATIONS FOR MOBILE LIFE

**12V
24V**

Battery terminals Cigarette lighter socket 12 / 24 V, with cover cap. Cable length 1.4 m.

81322 2,60



CARBEST
INNOVATIONS FOR MOBILE LIFE

**12V
24V**

Twin clutch

12/24 V, for cigarette lighter socket. 2 gr. Couplings and cover caps, cable length 2 x 1.4 m, max. 5 A, with fuse and operation indicator.

81320 2,99



CARBEST
INNOVATIONS FOR MOBILE LIFE

Universal distributor

To be placed in the cupholder. 2 x USB port, 5 V, 500 mA, 2 x universal socket. 20 cm spiral cable, max. 5 A, with fuse.

4-fold LED operation indicator

811315 4,50



PRO CAR
AUTO LINE ACCESSORIES

**12V
24V**

Without cap as
Standard plug can be used

Twin clutch

Connection for cigarette lighter sockets, two large couplings (inner Ø 21 mm) 12/24 V, max. 2 x 8 A. Integrated, replaceable 16 A fuse. Cable: 2 x 0.75 mm² flat cable. Length: 0.25 m. 16 A.

81193 18,25



12/24 VOLT COMBI-MODULES

CARBEST
INNOVATIONS FOR MOBILE LIFE

12/24 Volt modules to combine freely

12V
24V

NEW
2023



Application example



Surface mount housing

Surface-mounted enclosure for mounting sockets or indicators. Individually configurable with all CARBEST power sockets / USB sockets / voltmeters. Hole diameter: Ø 29 mm Size (L x W x H):

1-fold	80 x 55 x 50 mm	
	811223	2,60
2-fold	80 x 100 x 50 mm	
	811224	4,50
3-fold	80 x 150 x 50 mm	
	811225	5,90



Mounting frame

Front panels to accommodate sockets or indicators. Individually configurable with all CARBEST power sockets / USB sockets / voltmeters, hole diameter: Ø 29 mm. Size (L x W x H)

1-fold	60 x 42,5 x 5,5 mm	811221	1,50
2-fold	105 x 42,5 x 5,5 mm	811222	1,90
3-fold	150 x 42,5 x 5,5 mm	811213	2,30
4-fold	195 x 42,5 x 5,5 mm	811226	2,90
4-fold (square)	100 x 110 x 8 mm	811227	3,20



Rocker switch (ON/OFF) with control lighting

With red LED control light, rocker switch for switching on and off with red control light.

Load capacity: 12 V - 10 A / 24 V - 6 A
Diameter hole: Ø 29 mm

811217 **2,90**



Temperature display with probe

3-digit digital display, Tempmeter incl. temperature sensor. Reliable indication of the ambient temperature.

Temperature range: -40 - 125°C
Diameter hole: Ø 29 mm

811220 **13,90**



LED voltmeter

3-digit digital display, voltmeter (6 - 28V) for digital display of the applied voltage in volts.

Diameter hole: Ø 29 mm

811218 **14,60**



Dual LED voltmeter for Vehicle and on-board battery

3-digit digital display, dual LED voltmeter (10 - 60V) to display the applied voltage in volts, Ideal for monitoring the vehicle and auxiliary battery. Diameter hole: Ø 29 mm

811219 **19,90**



Power socket

For operating 12V or 24V devices, universal socket incl. protective cap. Also suitable as a charging input.

Load capacity: 12V-20A / 24V-10A. Diameter hole: Ø 29 mm

811210 **4,20**

Dual USB charging socket 1x USB-A / 1x USB-C

USB built-in socket incl. protective cap. Input: 12V / 24V, Output USB-A: QC 3.0 (3.6V - 12V, max. 32W), Output USB-C: QC 4.0 (5V - 20V, max. 60W), Diameter hole: Ø 29 mm

811211 **19,90**



LED voltmeter with integrated USB charging socket

LED voltage indicator incl. USB charging possibility, LED voltmeter with integrated USB charging socket. The display can be switched on or off via an ON/OFF touch switch. Includes protective rubber cap with, cutout for reading the voltage, Input: 12V / 24V, Output USB-A: QC 3.0 (3.6V - 12V, max. 18W), Diameter hole: Ø 29 mm

811212 **18,50**

12/24 VOLT USB SOCKETS / INDUCTIVE CHARGING STATIONS

PRO CAR
with Cover

without Cover

12V
24V

3A

USB power socket with 3 amps
Plenty of power even for power-hungry USB consumers. 12/24V DC to 5 V thanks to integr. Voltage converter, USB: 1 x 3 amps. Installation Size Ø 27.8 mm. 15 cm connection cable. Available with or without hinged lid. Without hinged lid **811762 22,30**
With hinged lid **811763 23,95**

PRO CAR

without plate

with plate

USB double socket
12/24V, 5V, 2 x 2.5A USB, installation Size: Ø 27,8 mm. Ca. 10 cm connection cable. Can be mounted with or without mounting plate. **811761 24,60**

**12V
24V**

Double USB socket
12/24 V, 5 V, 2 x 2.5 A USB with integrated voltage converter. Cable connection ca. 150 mm. Size: L x W x H: 85 x 35 x 33 mm. **811821 23,90**

NEW 2023

Surface-mounted double socket
1 x USB-A, 1 x USB-C, 2 x 2.1A Illuminated. Size: L x W x H: 73 x 35 x 16 mm. **811770 49,90**

**12V
24V**

Double socket with 1x USB-A + 1x USB-C
12-24 V, DC/5 V DC, 3600 mA, with integrated voltage converter and mounting plate, input: 8-34 V. **811831 37,30**

Double socket with 1x USB-A + 1x USB-C
12-24 V, DC/5 V DC, 3600 mA, with integrated voltage converter, input: 8-34 V. **811830 35,70**

CARBEST
INNOVATIONS FOR MOBILE LIFE

USB charging plug
• With cigarette lighter plug
• High quality aluminum housing
• USB-A and USB-C output
• Blue LED illumination

USB 3.0 and USB-C input for fast charging of up to two devices. Blue status LED indicates operational readiness.
Technical data: Input: DC 12/24V. Output USB-A/QC 3.0: 5V/3A, 9V/2A, 12V/1.5A (max. 18 W). Output USB-C/PD: 5V/3A, 9V/2A, 12V/1.5A (max. 18 W) Size: L 64.5 x Ø 26.5 mm. Weight: 25g **813032 7,50**

NEW 2023

Aluminum housing

SCANSTRUT ROKK
outdoor technologies WIRELESS

①

②

Lightning connector

Micro USB connector

Waterproof Qi charger, wireless smartphone charging
• Waterproof (IPX6) perfect for outdoor use
• Qi certified, suitable for all Qi enabled devices

12/24V, surface mount. Easy installation due to self-adhesive mounting. Ideal for GRP or wood. Ø charger: 96mm. Drill hole Ø: 64/65mm. 30cm supply line. **81750 95,-**

② Qi charging adapter for non-Qi smartphones
• Ultra thin and lightweight, fits under any smartphone protective case
• Suitable for any Qi certified charger

Easy connection to the smartphone. Available in 2 connector versions
Charging adapter with Lightning connector **81751 14,40**
Charging adapter with Micro USB connector **81752 14,40**

PRO CAR

Flat power USB socket
12-24 V DC/5 V DC, 3 A, integrated voltage converter, input: 8-34 V, output: 3,000 mA, cable length: 1 m, cable cross-section: 0.5 mm², output current max: 3 A, self-consumption: < 5 mA, Size: 42 x 34 x 15.25 mm, connection: wire end ferrules. **811811 23,40**

SCANSTRUT
outdoor technologies

Waterproof USB charging socket
Protection class IPX 6 - absolutely tight when the cover is closed. 2 x 5 V/2.1 A. Size: 94x39x29 mm, wall thickness max. 25 mm **811825**

**12V
24V**

Induction charging cradle for Fiat Ducato, Peugeot Boxer and Citroën Jumper ≥ 2006
• Is integrated precisely into the vehicle cockpit
• For wireless charging of all smartphones that allow inductive charging

Insert smartphone and charge wirelessly. The charging process can be controlled via the integrated on/off switch. The lockable cover prevents the cell phone from slipping out or out of place. Fast and uncomplicated installation: The original mounting bracket is simply exchanged for the charging cradle and connected to the vehicle's electrical system via plug & play. All connection cables included in the scope of delivery. 2 more ports for additional devices are built into the charging cradle.

Charging cradle with USB and HDMI port **81763 155,-**
Charging cradle with USB and jack/AUX connector **81764 155,-**
NEW: Charging cradle with USB and USB-C (also Ducato 8) **81765 163,-**

Universal Induction Charging Kit
Wireless charging for Qi compatible smartphones. Concealed installation possible, e.g. under the table top. Plastic, color: black. **81760 112,-**

Light guide extension kit incl. adapter
Plastic, length: 30 cm (without fig.) **81761 15,50**

Y-cable connection with T-socket (not shown) For direct connection in vehicles with type "T" connectors. Mounting of the branch connectors is not required. **81762 11,10**

Fig. shows Installation option under the table top

Inductive charging station for Qi enabled smartphones
• Charging without cable
• Mounting or mounting option

12V, 5V, charging current: 1A, stand-by consumption: 0.3W. 2m supply cable. Drill hole Ø: 60 mm, total Ø: 64 mm. Material: plastic matt black. WPC compatible. Please note the compatibility of your device. **83226**

12/24 VOLT POWER DISTRIBUTION

LED failure control indicator

①



CARBEST
INNOVATIONS FOR MOBILE LIFE

Power distributor with fuse holder and LED failure control indicator

- For up to 6 circuits
- LED failure indicator
- Integrated negative rail
- Transparent plastic cover included

Compact fuse and distribution box for 6 resp. 12 circuits. A red LED light signals immediately if a fuse has blown. Load capacity per circuit: max. 30A. Total load capacity: max. 100A. Voltage: max. 32V.

① **6 circuits** Size (LxWxH): 87.8 x 88 x 36.5 mm
810220 24,95

② **12 Circuits** Size (LxWxH): 165 x 85 x 39 mm,
810221 39,95

②

NEW
2023



Supplied without fuses.

①



Interior view

②



Interior view

Extra strong fuse modules for FKS fuses

- With 6 fuses
- Labeling fields on housing cover

① **Plus Distributor 8** Plus distributor 6-fold extra strong for the protection of 6 circuits with particularly strong current consumers. 1x input for 16 mm², max. 96 A. 6 x different strength outputs: 1 x 16 mm² up to max. 60 A with LED indicator light. 1 x 6 mm² up to max. 30 A, 4 x 4 mm² up to max. 20 A. 12 V/24 V. Incl. Fuses 2 x 10 A, 2 x 15 A, 1 x 30 A. Size: L 105 x W 71 x H 36 mm. With lid.

810493 62,50

② **Plus Distributor 6** Plus distributor 6-fold for the protection of 6 circuits. 1x input and 1x output to expand for 16 mm each², max 50 A. 6x output up to 4 mm² with max 20 A each, 12 V / 24 V. Incl. Fuses 4x 7.5 A, 1x 10 A and 1x 15 A. Size: L90 x W 60 x H37 mm. With lid.

810492 49,10

12 V circuit breaker

Can be used for 1 V and 23 V, snap-in mounting, for wall thickness of 1-3 mm.

2,5 A	81080	18,-
4 A	81081	18,-
6 A	81082	18,-
8 A	81083	18,-
10 A	81084	18,-
12 A	81085	18,-
16 A	81086	18,-



ST Power distributor with ground connection from the marine sector

Compact fuse and distribution box for up to six separately fused circuits with a maximum current carrying capacity of up to 30 amps per load, and voltages up to 32 volts. This makes the holder suitable for a wide range of vehicles. Holder for spare fuses: 2, Load capacity per circuit: max. 30 A, Load capacity total: max. 100 A, Voltage: max. 32 V.

6 circuits Size (LxWxH): 125 x 85 x 39 mm, weight: ca. 250 g

810480

Delivery without fuses



CARBEST
INNOVATIONS FOR MOBILE LIFE

Extra strong fuse module for FKS fuses

Switching and distribution box SVB 13 12 V cut-off relay 30 A, battery monitor D+ simulator, 2 outputs, consumer fused with 20 A, connection for charger, if the battery voltage of the 2nd battery is >13.7 V then the first battery is also charged. Size: 130 x 130 x 50 mm.

80090 135,-



Fuse holder for FKS fuses

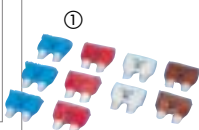
① Fuse holder simple for FSK fuses, with mounting plate, screw and protective cap.

810210 2,95

② Fuse holder single +10 A for FSK fuses, for flying assembly.

81090 3,10

②



Replacement fuses FKS

① **10-piece fuse set FKS** 2 x 3 A; 2 x 7.5 A; 3 x 10 A; 3 x 15 A

81048 8,80

② **22-piece fuse set FKS** 3x 5A; 4x 10A; 4x 15A; 4x 20A; 3x 25A; 3x 30A. Clip included.

81069 5,60



Module for PRESTO series

Fuse module with 4 fuses, suitable for our switch series PRESTO. Slate gray

81053 23,60



Fuse the consumers

Secure your connected Devices sufficiently. When doing so, make sure that the power of the Fuse is matched to the current consumption. A fuse that is too high will not trip in time in an emergency and would therefore be ineffective. A fuse that is designed too weak, on the other hand, may hold with one consumer, but if several consumers are connected, it will blow. Use different, individually fused circuits to install multiple devices.

For example, protect lights and sockets individually. This will prevent you from being left in the dark when the socket fuse fails. The refrigerator, heater, air conditioner and water pump should also be protected with different circuits. However, also make sure that not only the fuse rating is sufficient, but also that the installed cable cross-sections are large enough to prevent cable overheating. Observe the manufacturer's instructions.

Special fuses for strong consumers

① **Pre-fuse holder** is connected directly behind the battery to avoid dangerous cable fires.

81027 6,50
81027L

② **Pre-fuse for above fuse holder** 5 pcs.

30 A 81136 5,20
81136L

50 A 81028 4,50
81028L

③ **Fuse holder** for BF1 with transparent cover. For fuses BF1. Cable connection to threaded bolt M 6 with ring lugs.

81262 19,90

④ **Fuse BF1**

30 A Orange 812613 6,81

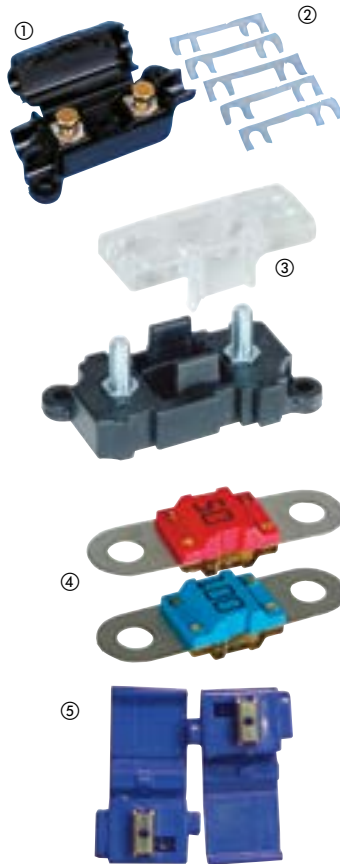
50 A Red 812614 6,98

80 A White 812615 6,98

100 A Blue 812616 12,80

⑤ **Branch connection** 2 piece

Blue 2,5mm 81037 1,50



⑥ **High-load fuse holder** for fuse protection of large consumers. 12 V and 24 V suitable. Both sides with M8 thread (without fuse) and cover.

81263 23,40

⑦ **Fuse for high load fuse holder**

100 A 81264 9,50

125 A 81265 9,50

150 A 81266 9,50

200 A 81267 9,50

250 A 81268 9,50

⑧ **Fuse holder Maxi** ideal as pre-fuse up to max. 100 A. Incl. 2 plug-in contacts for cable cross-section 6 - 10 mm².

81260 29,95

⑨ **Maxi fuse**

50 A 812601 6,60

100 A 812602 5,40

⑩ **Fuse holder** for strip-fuses up to 250 A. Can be placed in the ground line of the supply battery. Cable connections M10

81261 34,90

⑪ **Strip fuse** for above fuse holder, per pc.

100 A 812611 4,50

160 A 812612 4,50



VOTRONIC

Ground distributor with cover

- For large electrical installations with heavy consumers
- Lid included
- With 12 ground connections
- Particularly suitable for vehicles with GRP bodywork

① **Minus distributor 12**

1 x input and 1 x output to expand for 16 mm each², max 50 A. 12 x output up to 4 mm² with max 20 A each, 12 V / 24 V.

Size: L 90 x W 60 x H 37 mm.

810391 33,30

② **Minus distributor 14**

Ground distributor 12-fold. With solid input for the negative battery line via a cable up to 16 mm², loadable up to max 96 A. An additional output with the same values serves for possible extension. There are 12 outputs to the consumers. 4 x output up to 6 mm² with max. 32 A each and 8 x output up to 4 mm² with max. 20 A each, 12 V / 24 V.

Size: L 105 x W 71 x H 36 mm.

810392 52,40



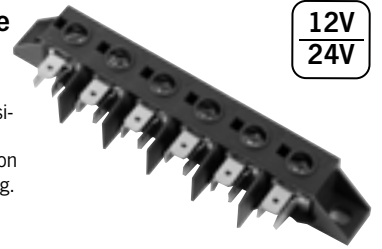
12V
24V

12V
24V

Distributor block for large cable diameters

Used, for example, as a battery distributor for EBL 208. Also ideal as a positive or ground distributor. 7 separate terminals for 6 mm² cable cross-section with 3 outlets each in 6.3 mm flat plug. Load capacity per terminal 57 A.

81199 8,75



12V
24V

Distribution blocks

Distribution strip ideal help for large 12 / 24 V electrical distributions, each compartment with 4 terminal lugs for 6.3 mm AMP plugs. Plastic.

1-fold 810651 3,50

810651L

3-fold 81065 3,80

81065L

4-fold 81066 6,40

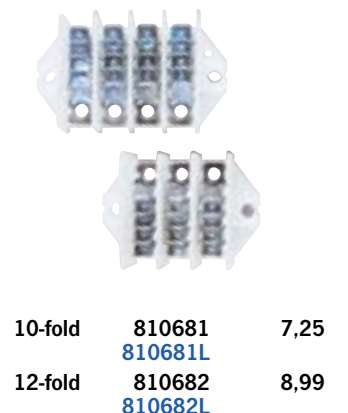
81066L

6-fold 81067 7,20

81067L

8-fold 81068 12,—

81068L



10-fold 810681 7,25

810681L

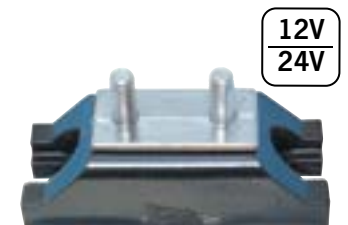
12-fold 810682 8,99

810682L

Professional mass distribution

Distributor block 2-fold 2 threaded bolts M6 with bridge.

81252 19,50



12V
24V

12/24/230 VOLT POWER DISTRIBUTION



Car cable

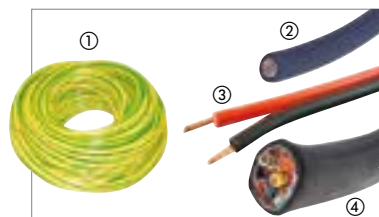
① Automotive cable with large cross-section, car cable FLY workshop quality, conductivity and insulation specially designed for use in the automotive sector.

Color: Black,

16 mm ² /2 m	810915	15,30
	GP* 7,65 / 1 m	
16 mm ² /5 m	810916	31,10
	GP* 6,22 / 1 m	
25 mm ² /2 m	810925	32,20
	GP* 16,10 / 1 m	
25 mm ² /5 m	810926	69,95
	GP* 13,99 / 1 m	
35 mm ² /2 m	810931	39,80
	GP* 19,90 / 1 m	
35 mm ² /5 m	810932	99,50
	GP* 19,90 / 1 m	

② Flex cable H01N2D OEM quality, Highly flexible copper stranded wire, 2 or 5 m in SB-pack, According to DIN VDE 0282, Nominal voltage 100 V. Color: Black.

16 mm ² /2 m	810965	22,30
	GP* 11,15 / 1 m	
16 mm ² /5 m	810966	49,90
	GP* 9,98 / 1 m	
25 mm ² /2 m	810975	29,70
	GP* 14,85 / 1 m	
25 mm ² /5 m	810976	74,40
	GP* 14,88 / 1 m	
35 mm ² /2 m	810981	41,80
	GP* 20,90 / 1 m	
35 mm ² /5 m	810982	104,40
	GP* 20,88 / 1 m	
50 mm ² /2 m	810991	50,--
	GP* 25,00 / 1 m	
50 mm ² /5 m	810992	125,--
	GP* 25,00 / 1 m	



Special cable

① Grounding cable, 10 m 4.0 mm². For ground connection of input sockets to the consumers. Price/10m.

820619	16,95
GP* 1,69 / 1 m	

② Special automotive cable, 10 m 2.5 mm². With particularly thick sheathing. This reduces blank scuffing. Price/10m.

85167	9,95
GP* 0,99 / 1 m	

③ Speaker cable, 10 m 2 x 0,75 mm²

810629	9,90
GP* 0,99 / 1 m	

④ Cable 13-pole, 10m For wiring trailers 8 x 1.5 and 5 x 2.5 mm². Price/10m.

821369	209,--
GP* 20,90 / 1 m	



Press cable lugs

with eyelet. Special design, also suitable for fine-stranded conductors. As a ring eyelet for reliable screwing. 2 pieces each.

① for cable 10 mm² 90° cranked M8

812754	5,50
---------------	-------------

① for cable 16 mm² 90° cranked M8

812764	6,50
---------------	-------------

② for cable 10 mm² M6

812703	3,95
---------------	-------------

812703L	
----------------	--

M8

812704	4,70
---------------	-------------

812704L	
----------------	--

M10

812705	4,70
---------------	-------------

812705L	
----------------	--

M12

812706	4,70
---------------	-------------

812706L	
----------------	--

② for cable 16 mm² M6

812713	5,20
---------------	-------------

812713L	
----------------	--

M8

812714	6,30
---------------	-------------

812714L	
----------------	--

M10

812715	5,30
---------------	-------------

812715L	
----------------	--

M12

812716	6,20
---------------	-------------

812716L	
----------------	--

② for cable 25 mm² M6

812723	8,10
---------------	-------------

812723L	
----------------	--

M8

812724	8,50
---------------	-------------

812724L	
----------------	--

M10

812725	8,70
---------------	-------------

812725L	
----------------	--

M12

812726	6,25
---------------	-------------

812726L	
----------------	--

② for cable 35 mm² M8

812734	7,10
---------------	-------------

812734L	
----------------	--

M10

812735	8,10
---------------	-------------

812735L	
----------------	--

M12

812736	7,50
---------------	-------------

812736L	
----------------	--

② for cable 50 mm² M8

812744	11,20
---------------	--------------

812744L	
----------------	--

M10

812745	10,95
---------------	--------------

812745L	
----------------	--

M12

812746	11,30
---------------	--------------

812746L	
----------------	--

② for cable 50 mm² M8

812744	11,20
---------------	--------------

812744L	
----------------	--

M10

812745	10,95
---------------	--------------

812745L	
----------------	--

M12

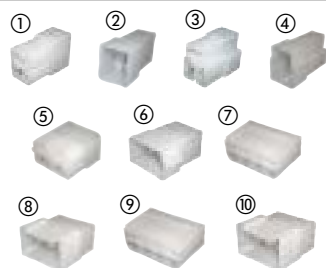
812746	11,30
---------------	--------------

812746L	
----------------	--

Car flat plug housing

Flat plug housing for secure, fixed cable connections.

For the interior of the car. Coupling to accept flat receptacles and plugs for flat tongues. Material polyamide. Optionally with 2, 3, 4, 6 or 8 plug-in contacts. Please order flat plug separately. (Tongue and sleeve are a compl. Coupling)



Car flex cable

Fine wire automotive flex cable 5 m/10 m pack. Flexible.

Prices per 5m.

Color: Red e.g. positive lead

1,5 mm ²	810415	4,90
---------------------	---------------	-------------

GP* 0,98 / 1 m	
----------------	--

2,5 mm ²	810515	8,--
---------------------	---------------	-------------

GP* 1,60 / 1 m	
----------------	--

4,0 mm ²	810605	11,40
---------------------	---------------	--------------

GP* 2,28 / 1 m	
----------------	--

6,0 mm ²	810615	29,50
---------------------	---------------	--------------

GP* 5,90 / 1 m	
----------------	--

10,0 mm ²	810735	17,80
----------------------	---------------	--------------

GP* 3,56 / 1 m	
----------------	--

Black e.g. ground wire

1,5 mm ²	810425	3,80
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GP* 0,76 / 1 m	
----------------	--

2,5 mm ²	810525	6,20
---------------------	---------------	-------------

GP* 1,24 / 1 m	
----------------	--

4,0 mm ²	810715	10,50
---------------------	---------------	--------------

GP* 2,10 / 1 m	
----------------	--

10,0 mm ²	810725	27,90
----------------------	---------------	--------------

GP* 5,58 / 1 m	
----------------	--

Blue e.g. control line D+

1,5 mm ²	810435	3,80
---------------------	---------------	-------------

GP* 0,76 / 1 m	
----------------	--

Gray e.g. control line

1,5 mm ²	810705	13,80
---------------------	---------------	--------------

GP* 2,76 / 1 m	
----------------	--

Prices per 10m.

Color: Red, e.g. positive lead

1,5 mm ²	810416	8,50
---------------------	---------------	-------------

GP* 0,85 / 1 m	
----------------	--

2,5 mm ²	810516	15,--
---------------------	---------------	--------------

GP* 1,50 / 1 m	
----------------	--

Black, e.g. ground wire

1,5 mm ²	810426	7,50
---------------------	---------------	-------------

GP* 0,75 / 1 m	
----------------	--

2,5 mm ²	810526	12,40
---------------------	---------------	--------------

GP* 1,24 / 1 m	
----------------	--

Brown, e.g. ground wire

1,5 mm ²	810406	7,50
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GP* 0,75 / 1 m	
----------------	--

2,5 mm ²	810506	12,40
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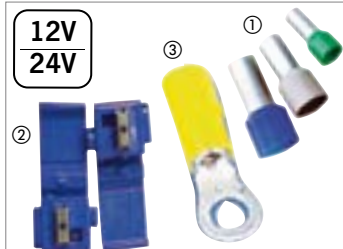
GP* 1,24 / 1 m	
----------------	--

Blue, e.g. control line D+

1,5 mm ²	810436	7,50
---------------------	---------------	-------------

GP* 0,75 / 1 m	
----------------	--

12V
24V



Connection technology

① Wire end ferrules no splicing of the cable ends. Price per 25 pieces:

1,5 mm ²	82062	4,95
---------------------	--------------	-------------

GP* 0,20 / 1 pcs.	82062L	
-------------------	---------------	--

Price per 10 pieces:

10 mm ²		
--------------------	--	--

GP* 0,34 / 1 pcs.		
-------------------	--	--

	810431	3,40
--	---------------	-------------

	810431L	
--	----------------	--

16 mm ²		
--------------------	--	--

GP* 0,46 / 1 pcs.		
-------------------	--	--

	810432	4,60
--	---------------	-------------

	810432L	
--	----------------	--

Branch connector for branching off cables.

② from 1.5 - 2.5 mm, Blue, 2 pieces.

GP* 0,75 / 1 pcs.	81037	1,50
-------------------	--------------	-------------

Flat terminals for wire cross section

③ 4- 6 mm, Yellow, 2 pieces.

GP* 1,05 / 1 pcs.	81038	2,10
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	81038L	
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Special tools

Crimping pliers K3 for wire end ferrules 0.5 - 16 mm². Length 230 mm, weight 240 g.

81243	93,--
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Car flat plug sleeve and flat plug tongue

Flat tabs and flat receptacles for adjacent housings. The flat connector tongue and sleeve form a secure cable connection with the flat connector housing and are ideal for wiring in the interior of the vehicle.

The connection is made and released quickly and easily. Available for different cable diameters. Material: CuZn, tin/silver plated.

① Flat plug sleeve

② Flat plug-in tongue (6.3x0.8 mm).

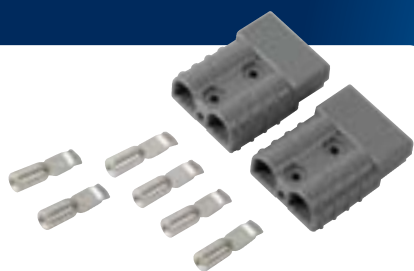
Sleeve for 0.5-1.0 mm²

810371	2,10
---------------	-------------

Tongue for 0.5-1.0 mm²

810375	0,80
---------------	-------------

Sleeve for 1.5-2.5 mm²



50 A high current battery connector set

2-pole unisex (genderless) connector that can be used as both male and female. Current max. 50A. Incl. 6 receptacles for the following cable cross sections: 2x 4-6 mm² 2x 5-10 mm², 2x 8-16 mm²

Size (L x W x H): 48 x 35 x 15.9 mm

Scope of delivery: 2 x connectors (set) and 6 x crimp contacts. **850920 7,95**



REIMO
TOP PRICE
18,99

Mounting plate with 12 V socket and 50 A connector

Very flat built-in panel with 12V / 24V power socket and recessed 50A power connector. Incl. 6 receptacles for the following cable cross sections: 2x 4-6 mm², 2x 5-10 mm², 2x 8-16 mm²

Size (L x W x H): 75 x 60 x 6 mm

811214 18,99



Protective cover incl. Cap for 50 A connector

Protects the connector from dust, Dirt and splash water

811215 2,90



Protective cap for 50 A plug

Front cover made of plastic.

811216 1,99



Surface mounted sockets

Socket 1-fold with hollow base. Max. 250 V / 16 A. Glossy white. **83209 10,50**

Socket 2-fold with hollow base. Max. 250 V / 16 A. Glossy white. **83210 15,30**

Socket 3-fold with hollow base. Max. 250 V / 16 A. Glossy white. **83212 19,50**



Base plates for surface Schuko sockets

White, self-extinguishing with combustible substrate.

1-fold 83214 2,80
2-fold 83215 6,20
3-fold 83216 10,--

12 V signal switch (25 A)

With green indicator light (on/off). Loadable up to 25 A! Mounting hole Ø 24 mm. Ideal for switching large consumers (e.g. coffee machine etc.)

80310 6,95



12/230 V accessories

Surface mounted socket 230 V White 82076 5,40
82076L
Damp proof junction box 82079 3,20
82079L

Dimmer module LIS 101

For 12 V systems (10.5 to 15 V) Current max. 10 A/standby current max. 15 mA, Size: W x H x D: 68 x 23 x 57 mm, Weight: 40 g. A separate pushbutton is required for control.

833181 57,60



AP Switch

Surface-mounted switch On/Off. Max. 250 V / 10 A. Glossy White **83213 15,20**



Built-in chest pushbutton

NC contact 1-pole, 2 A, 250 V, plastic, black, with additional housing

834651 13,90

White, with additional housing

834652 13,90

Cover profiles and cable ducts

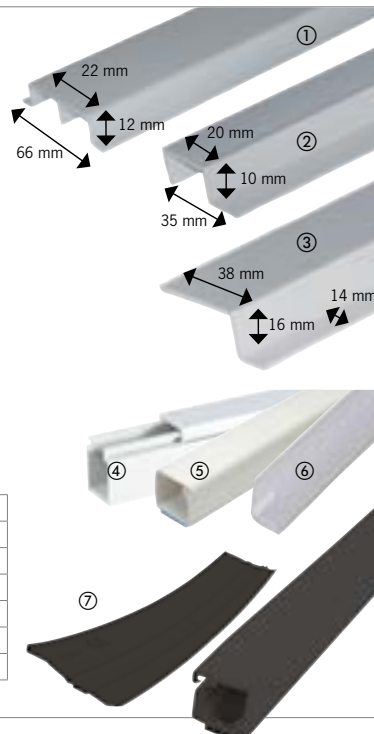
- For laying cables and hoses
- Made of rigid PVC

- Double chamber cover profile** 2 chambers (ideal for separation of 12/230 volts), light gray, 2 m rod **81095 7,50**
- Flat cover profile** 1 chamber, light gray, 2 m rod **810951 5,99**
- Corner cover profile** with 1 chamber. To the corner veneer. Light gray. 2 m rod. GP* 2,80 / 1 m **810952 5,60**
- 2 m cable duct** 15 x 15 mm Removable cover. Mounting by screwing (perforated on the back), white GP* 3,50 / 1 m **810955 7,--**
- 2 m cable duct** self-adhesive 7 x 12 mm. Lid with film hinge, White GP* 7,25 / 1 m **810954 14,50**
- 2 m cable duct** 6 x 7 mm. Self-adhesive back adhesive surface. Transparent GP* 3,55 / 1 m **810953 7,10**

- Roll cable duct** foldable, self-adhesive, color black.

2 meters	15 x 15 mm	GP* 3,20 / 1 m	810944	6,40
	20 x 20 mm	GP* 4,20 / 1 m	810945	8,40
	35 x 20 mm	GP* 4,65 / 1 m	810946	9,30
20 meters	12 x 7 mm	GP* 2,50 / 1 m	810956	49,95
	15 x 15 mm	GP* 2,45 / 1 m	810957	48,95
	20 x 20 mm	GP* 3,65 / 1 m	810958	72,95
	35 x 20 mm	GP* 3,95 / 1 m	810959	78,95

GP* = base price per specified unit



SWITCH- / SOCKET-SERIES 10000 AND 20000

Switch and socket series

The switch and socket inserts can be perfectly combined with the matching accessories. From USB sockets, to step and awning switches, to warning systems, SAT and TV accessories. For other countries special 230V sockets are offered.

10000 series: The switch rockers and sockets have, as well as the associated Frame rounded edges. Some sockets, dimmers and other built-in elements can also be integrated into the 20000 series frames using an adapter (see right). These built-in elements are marked with a *.

Series 20000: The switch rockers and frames are rectangular and plain.

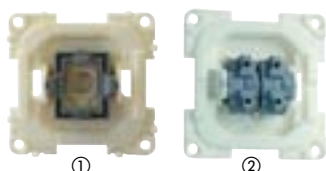
Adapter frame from 10000 series to 20000 series



For adaptation of mounting boxes of the 10000 series to the 20000 series. Suitable mounting boxes are marked with *.

Slate gray	821671	821671L	1,70
Black	821672	821672L	1,70

Switch inserts



Switch for rocker 10000+20000

① Changeover switch / circuit breaker		
	821684	7,50
	821684L	
② Series switch for 2 circuits.		
	821685	9,30
	821685L	

Switch rockers 10000



Series 10000 for changeover switch

Light gray	82073	2,20
	82073L	
Brown	820730	2,20
	820730L	
Slate gray	820732	2,20
	820732L	
Silver	820735	4,50
	820735L	
White	820736	2,10
	820736L	

Switch rockers 20000



Series 20000 for changeover switch

③ Slate gray	82168	1,90
	82168L	
③ Black	821686	1,75
	821686L	
Double rocker 20000 for series switch		
④ Slate gray	821680	2,90
	821680L	
④ Black	821687	2,85
	821687L	

Step elements 10000



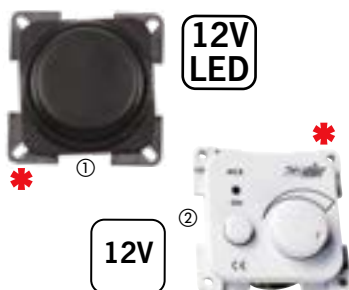
① Rocker switch

for electric steps		
Brown	82081	14,40
Slate gray	82082	14,40

② Step alarm

gives an audible and visual signal if the step is still extended when the ignition is switched on.		
Slate gray	820881	21,50

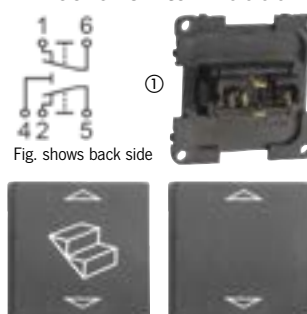
12 Volt Dimmer 10000



- Warm atmosphere
- For mood lighting to feel good

① LED dimmer 70 W for LED.		
LED dimmer with cover, rotary-button, frame and touch socket.		
Slate gray	811840	127,--
Black	811841	127,--
② Dimmer 32 W for incandescent and halogen lamps up to 32 W.		
Light gray	83318	45,40
Brown	833180	44,90
Slate gray	83229	34,40

Rocker switch 20000



① Short-travel keyswitch 20000

	821683	13,40
	821683L	

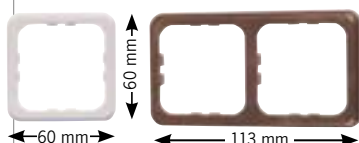
Surface rocker 20000 for treads

Slate gray	821681	2,90
	821681L	
Black	821688	2,75
	821688L	

Surface rocker 20000 e.g. for awning or lift bed.

Slate gray	821682	2,90
	821682L	
Black	821689	2,90
	821689L	

Cover frame 10000



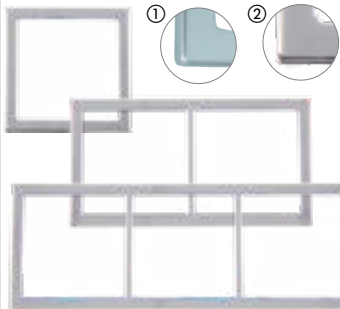
Single frame 2 piece

Light gray	820751	2,40
	820751L	
Brown	8207501	2,40
	8207501L	
Slate gray	820752	2,40
	820752L	
Silver	8207551	7,90
	820755	
White	820756	3,10
	820756L	

Double frame 1 piece

Light gray	82074	2,95
	82074L	
Brown	820740	2,95
	820740L	
Slate gray	820742	2,95
	820742L	
Silver	820745	7,95
	820745L	
White	820746	2,95
	820746L	

Cover frame 20000



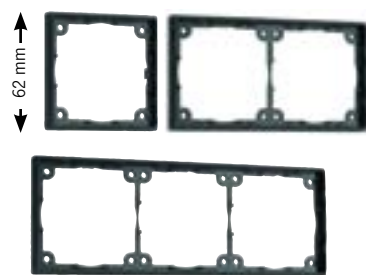
① Cover frame silver matt..

1-fold	821610	3,95
	821610L	
2-fold	821620	6,80
	821620L	
3-fold	821630	9,60
	821630L	

② Cover frame High-gloss chrome

1-fold	821611	4,10
	821611L	
2-fold	821621	7,10
	821621L	
3-fold	821631	10,30
	821631L	

Distance frame 20000



Example sketch for the assembly of the 20000 series with cover- and distance frame

The higher the spacer frame, the less installation depth is required.

3 mm distance frame 20000

Construction height 3 mm. Slate gray		
1-fold	82164	2,10
	82164L	
2-fold	82165	3,50
	82165L	
3-fold	82166	4,99
	82166L	

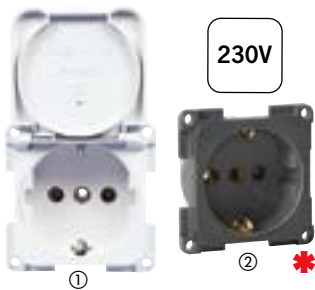
Construction height 3 mm. Black.

1-fold	821640	2,10
	821640L	
2-fold	821650	3,50
	821650L	
3-fold	821660	4,99
	821660L	

12 mm distance frame 20000

Body height 12 mm. Slate gray		
1-fold	821600	2,70
	821600L	
2-fold	821601	4,30
	821601L	
3-fold	821602	6,60
	821602L	
Body height 12 mm. Black.		
1-fold	821603	2,70
	821603L	
2-fold	821604	3,90
	821604L	
3-fold	821605	6,60
	821605L	

230 V sockets 10000



① Built-in socket with hinged cover		
Light gray	82070	9,95
	82070L	
Brown	820700	9,95
	820700L	
Slate gray	820702	9,80
	820702L	
Silver	820705	12,95
	820705L	
White	820706	9,80
	820706L	
With child lock		
Light gray	82071	10,90
Brown	820710	10,90

② Socket without hinged cover		
Slate gray	820761	5,10
	820761L	
Black	820766	5,30
	820766L	

Hinged cover as spare part for built-in sockets, spring-loaded.		
Light gray	82077	2,80
Slate gray	820772	2,80

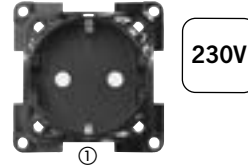
Contact protection is mandatory for 230 V sockets (see below)

12 V sockets 10000



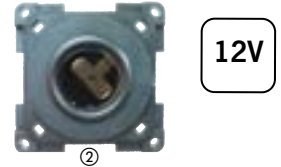
① Standard socket with hinged lid		
Brown	810180	14,95
	810180L	
Light gray	81018	14,95
	81018L	
White	810186	14,95
	810186L	
② Cigarette lighter socket with hinged lid		
Brown	810080	14,95
	810080L	
Light gray	81008	14,95
	81008L	
③ Standard socket without hinged lid can be loaded up to 10 A		
Slate gray	820763	11,90
	820763L	
Black	820769	11,90
	820769L	

230 V sockets 20000



① Socket without frame with child safety lock.		
Slate gray	820765	6,95
	820765L	
Black	820767	6,95
	820767L	

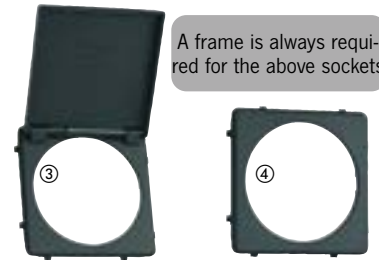
12 V socket 20000



② Cigarette lighter socket without frame loadable up to 10 A		
Slate gray	820764	9,90
	820764L	
Black	820770	9,40
	820770L	

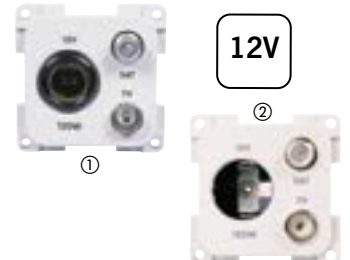
③ Frame with hinged lid		
Slate gray	821670	2,25
	821670L	
Black	821673	2,25
	821673L	
④ Frame without cover		
Slate gray	82167	2,--
	82167L	
Black	821674	2,--
	821674L	

A frame is always required for the above sockets



12 V sockets with antenna connection 10000

① 12 V & antenna socket Standard socket+TV+Sat.		
Light gray	49109	14,95
Brown	491090	14,95
White	491091	14,95
Slate gray	491092	14,95
② 12 V & antenna socket Cigarette lighter socket+TV+Sat.		
Brown	491100	15,90
Slate gray	491102	15,10



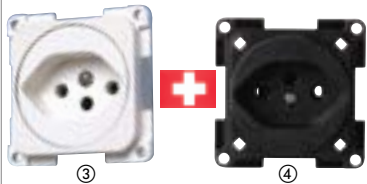
Country-specific 230 V sockets 10000 / 20000



① Socket outlet for Belgium/France with center protection contact and child protection. 250 V/16 A, 2-pole + ground. Installation depth: 28 mm		
Light gray	82046	11,10
Slate gray	820461	11,10
Black	820462	11,10

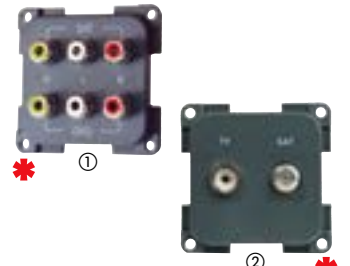
② Socket British Standard 250 V/13 A , 2-pole + earth. Installation depth: 20 mm		
Light gray	82080	11,50
Brown	820800	11,50
Slate gray	820801	11,50
Black	820802	11,50

Socket Swiss Standard 250 V/10 A, 2-pole+earth. Depth 31 mm		
③ 10000 series		
Light gray	820473	21,90
④ 20000 series		
Frame 82167 / 821674 required !!!		
Slate gray	820471	17,90
Black	820472	21,90



SAT / and audio sockets 10000

① Chinch 6 RCA connectors for picture and sound transmission, e.g. from receiver to DVD/TV.		
Slate gray	82083	12,10
Brown	82084	12,10
② Antenna socket with connection for coaxial and F-plug.		
Slate gray	82142	9,90
Brown	82143	9,90



USB sockets 10000 (connection to 12 V)



① USB 1-way socket 5 V, 3 A.		
Slate gray	811827	38,90
	811827L	
Black	811826	38,90
	811826L	
② USB double socket 5 V/2 x 2.5 A.		
Slate gray	820762	41,90
	820762L	
Black	820768	41,90
	820768L	
③ USB double charging socket 5 V/3.6 A with status LED. 1 x USB-A and 1 x USB-C.		
Slate gray	802101	51,60
	802101L	
Black	802100	51,60
	802100L	
④ USB double socket 5 V/1 x 1.0 A and 1 x 2.1 A		
Slate gray	802091	29,40

Contact protection boxes 10000 / 20000

① 1 Cable entry with strain relief 2 piece		
	820780	4,99
	82078	
② 2 Cable entry. Installation depth 45 mm. 1 piece		
	820782	2,75
	820782L	
③ 1 Cable entry. Installation depth 35 mm. 1 piece		
	820781	2,45
	820781L	





Berker Integro Series

The Berker switch program Integro is used in many motor homes and caravans. Berker's innovative products offer convenience, reliability and, above all, safety. Simple and uncomplicated installation is a matter of course.

The paving program

Berker INTEGRO meets the highest demands: modern design, quick installation, integration of a wide range of operating elements. In addition, the colors and perfect shape offer a successful blend of functionality and design.



Chrome glossy



Anthracite matt



NEW 2023

USB A/C charging socket
12 V / 3 A.

Anthracite matt	83614	71,50
Polar white	83615	71,50
Black matt	83616	71,50

Rotary dimmer
Chrome gloss **83190L** 123,-

USB charging socket
12 V / 3 A.

Brown matte	831632	48,70
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Socket 12V + SAT
max. 10A / with F-double socket.

Anthracite matt	83160	27,50
	83160L	
Polar white glossy	831601	27,50
	831601L	

HDMI socket
with HDMI double jack type A.

Anthracite matt	83162	45,70
	83162L	

USB charging socket 2-fold
12 V/2 x 2.5 A

Anthracite matt	83218	58,30
Gray glossy	83219	58,30
Polar white glossy	83222	58,30
Black matt	83223	58,30
Brown matte	83217	58,30

Socket 12V+TV
max. 10A / with IEC socket (male), F-technology connection on the back.

Anthracite matt	83161	26,90
	83161L	

USB / audio jack
3.5mm jack double socket and USB double socket.

Anthracite matt	83164	49,95
	83164L	

Standard socket 12 V
with flat plug connection 6.3 mm. 12- 24 V, 16 A. Suitable contact protection boxes: 83148, 83166, 83168, 83169.

Anthracite matt	83144	13,90
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Sockets 230 V - D / CH / DK / GB
Suitable contact protection boxes: 83148, 83166, 83168.

① **Schuko socket 230 V** with screw terminals.

Black matte	83225	6,55
Polar white matt	831433	6,55
Gray matte	83143	6,55
Anthracite matt	831431	6,55

Sockets D / CH / DK / GB

② Switzerland, gray matt **83198** 13,70

③ Great Britain, Gray matt **83199** 12,80

④ Denmark, anthracite matt **831441** 15,10

NEW 2023

Power socket 12 V
with flat plug connection 6.3 mm. 12 - 24 V, 20 A max.

① without lid, black matt **83608** 13,90

② with lid, anthracite matt **83145** 16,50

NEW 2023

Gasket IP44
For SCHUKO sockets and rocker switches/buttons. Not for switches/buttons with split rocker.

83617	2,20
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SAT socket
Satellite socket with F double socket

Anthracite matt	83142	21,95
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AP housing
1-fold with strain relief

Version high: 59, 5 x 59, 5 x 41 mm.

Anthracite glossy	83202	9,95
Polar white glossy	83203	9,95
Brown glossy	83201	9,95

Version flat: 59, 5 x 59, 5 x 16 mm.

Anthracite glossy	83204	4,50
Polar white glossy	83208	4,50

Contact protection boxes
Contact protection box with strain relief. For protection against electric shock in 230 volt wiring.

① 1-fold, ø 45 mm, depth: 35.5 mm. **83148** 2,60

② 1-fold, ø 49 mm, depth: 38 mm. **83166** 2,60

③ 2-fold, ø 49 mm, depth: 38 mm. **83168** 6,90

④ 3-fold, ø 49 mm, depth: 38 mm. **83169** 9,95



Contact protection box optional

Control switch 12 V

2-pole, 5A, with control LED. Suitable contact protection boxes: 83168, 83148, 83165.

Polar white glossy

831422 24,95

Anthracite Matt **831421 24,95**

Chrome Matt **831423 29,50**



Contact protection box mandatory
83148, 83165

Rocker switch 230 V

(max. 250 V) NO contact, 10 A, screw terminals. (e.g. for dimmer LIS 101)

Granite black satin

831534 14,60

Polar white glossy **831532 10,40**

Anthracite Matt **83153 9,95**

Chrome Matt **831531 16,50**

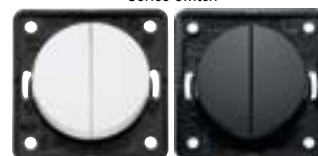
Chrome gloss **831533 18,50**

Off / changeover switch



Contact protection box mandatory
83165, 83168

Series switch



Contact protection box mandatory
83165

Switch 12 / 230 V with screw terminals

Off and changeover switch

Granite black satin **831406 11,70**

Polar white glossy **831403 10,90**

Anthracite Matt **83140 10,90**

Chrome Matt **831401 18,70**

Chrome gloss **831404 19,90**

Series switch (double switch)

Granite black satin **831415 18,20**

Polar white glossy **831413 14,90**

Anthracite Matt **83141 14,90**

Chrome Matt **831411 23,20**

Chrome gloss **831414 22,40**



Contact protection box mandatory
83168, 83148, 83165

Control rocker switch

230 V, red indicator light.

Chrome matt **831425 18,70**



Step rocker switch

with flat plug connection 4.8 mm. 12 V, 15 A or: 24 V, 7.5 A. 4 contacts. 2 x normally closed or normally open contact.

Anthracite Matt **83146 18,10**

Chrome Matt **831461 22,40**

Chrome gloss (5 contacts)
831463 39,-



Awning rocker switch

to open or close. With flat plug connection 4.8 mm. 12 V, 15 A or: 24 V, 7.5 A.

Anthracite Matt **83147 19,80**

Chrome Matt **831471 34,-**



Frame with hinged lid

Granite Black Matt

831496 11,60

Polar white glossy

831493 6,60

Anthracite Matt **83149 6,60**

Chrome Matt **831491 15,95**

Chrome gloss **831494 13,95**



Chrome gloss



Anthracite Matt

Frame series Flow

Frame 1-fold (LxWxH 59.5 x 59.5 x 9 mm)

Polar white glossy **831503 2,10**

Anthracite Matt **83150 2,40**

Chrome Matt **831501 11,40**

Chrome gloss **831504 11,40**

Frame 2-fold (LxWxH 119 x 59.5 x 9 mm) vertical or horizontal mounting

Polar white glossy **831513 3,90**

Anthracite Matt **83151 4,40**

Chrome Matt **831511 16,95**

Chrome gloss **831514 15,20**

Frame 3-fold (LxWxH 178.5 x 59.5 x 9 mm) vertical or horizontal mounting

Polar white glossy **831523 8,50**

Anthracite Matt **83152 7,95**

Chrome Matt **831521 22,42**

Chrome gloss **831524 24,50**



Chrome Matt

Contact protection boxes

Contact protection box with strain relief. For protection against electric shock in 230 volt wiring.

① 1-fold, flat, ø 45mm, T: 22 mm.

83165 2,10

② 1-fold, ø 58 mm, depth: 35 mm.

83167 2,60



Frame series Pure

Frame 1-fold (LxWxH 59.5 x 59.5 x 9 mm)

Chrome gloss **83251 10,50**

Granite Black Matt **83252 10,50**

Frame 2-fold (LxWxH 119 x 59.5 x 9 mm) vertical or horizontal mounting

Chrome gloss **83253 14,40**

Granite Black Matt **83254 14,40**

Frame 3-fold (LxWxH 178.5 x 59.5 x 9 mm) vertical or horizontal mounting

Chrome gloss **83256 26,-**

Granite Black Matt **83257 14,20**

EXTERNAL SOCKETS / 230 VOLT CIRCUIT BREAKER

LED status display



LEAB
mobile energy

230V feed of the latest generation

① MelfBox

- 230 V power supply for light commercial and recreational vehicles with integrated starting prevention
- Robust plastic housing with LED status display
- Screwless mounting
- IP55 protection class

The assembly can be done completely from the outside and is screwless. Rated voltage: 230V/50Hz, max. current 16 A. Size LxWxD: 62x67x56 mm, mounting diameter: 55 mm.

81447

182,-

② 10 m cable with CEE plug Due to the ergonomic design, polarity reversal is impossible. 10 m connection cable (3x 2.5 mm²) with CEE plug.

81429

194,50

Outdoor sockets for SAT, TV, 12 V and 230 V



Multifunction outdoor socket for 12 V / 230 V

2 x TV-Sat. Magnetic closure against unintentional opening.

White	820392	57,95
Light gray	820394	57,95
Gray	820393	57,95
Black	820395	57,95

Replacement lid

White	65233D	22,40
Light gray	65234D	22,40
Gray	65235D	21,80
Black	65232D	22,40

Multifunction outdoor socket

① With magnets. For 12 V/20 A, 2 x TV-Sat and 2 x USB 5 V/with 2.5 A each. Gray **820381**

② for 12 V / 230 V, antenna / TV Sat, Size: 100 x 100 mm

Silver gray **820171** 35,90

③ Replacement lid gray **820176** 9,70



Awning socket 230 V

Color: White. **82038** 17,70

Empty socket

Empty box with closed back and magnetic closure, gray

820382 23,40



230 V RCD circuit breaker

Automatic circuit breaker with RCD (13 A) for retrofitting or upgrading your electrical system. Without housing.

82054 74,80



230 V FI installation kit

the complete set with all small parts for easy installation of the 230 V system in the vehicle. Scope of delivery: 1 surface-mounted socket outlet white, 1 recessed socket outlet light gray w. frame, 1 contact protection box, 1 recessed electromat with FI switch, 1 CEE input socket outlet white, 3 m cable 3 x 1.5 mm², 2 m grounding cable gray/green 4mm², 2 ring lugs and wire end sleeves.

82000 182,-



Surface-mounted circuit breaker (230 V system)

① Residual current circuit breaker with a tripping current of 30 mA and 2 automatic circuit breakers 13 A. As soon as a fault current flows in the 230 V system, the current is cut off. Low switching current useful for motorhome vacations with children. Gray surface mount housing, Size: W85 x H130 x D58 + 15 mm

82055 73,-

② Surface-mounted circuit breaker, 2-pole, 13 A. Inexpensive alternative without RCD. Current interruption in the event of a short circuit, gray housing Size: W85 x H130 x D58 + 15 mm

82056 30,-



Built-in circuit breaker (230 V system)

Built-in housing with RCD The 2-pole switching automatic circuit breaker (13 A) protects against overload, short circuit and electrical accidents. Mains disconnection occurs at a fault current of 30 mA. TÜV/GS tested. Housing: aluminum front panel, gray, features: indicator light for operational readiness, terminal rail for protective conductor and potential equalization with strain relief. Size: W x H x D 130 x 140 x 60 mm. Installation opening L 106 x W 115 mm.

82050 134,-



Ground fault circuit interrupter is personal protection! If there is faulty wiring or insulation damage in the vehicle, the full mains voltage of 230 V may be present at the body. Touching the vehicle body then leads to dangerous electric shocks. The RCD disconnects the mains connection as soon as a minimum fault current flows.

CEE power feed sockets

- Shapely, stable housing
- Magnetic lock against unintentional opening
- Available in 4 colors

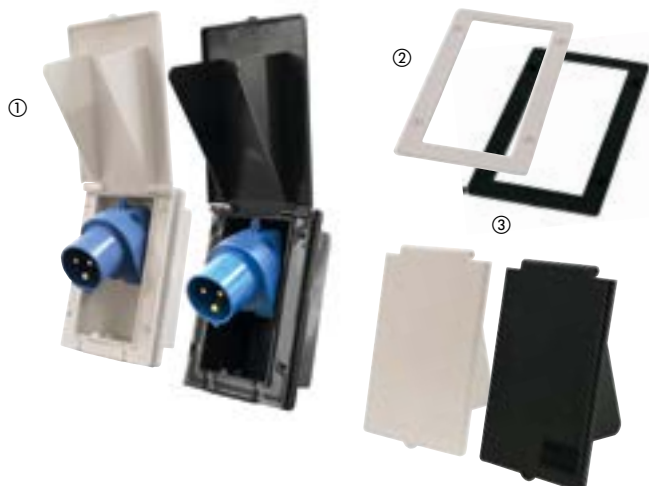
CEE power supply socket with magnetic lock. So that the lid remains closed and does not rattle even when driving and strong wind. 120 x 135 mm, built-in pot round Ø 95 mm with hinged lid.

Input sockets

Input socket White	820374	30,95
	820374L	
Input socket Black	820375	30,95
	820375L	
Input socket Gray	820376	30,95
	820376L	
Input socket light gray	820378	30,95
	820378L	

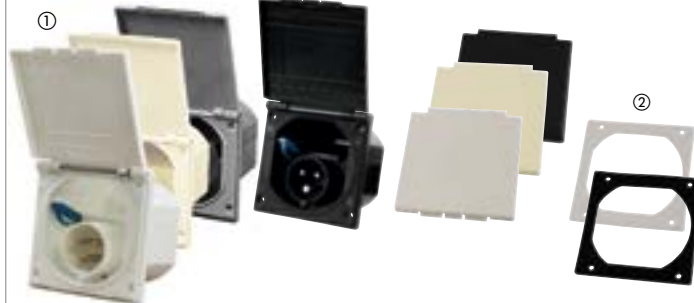
Replacement lid

Replacement lid White	65233D	22,40
Replacement lid Black	65232D	22,40
Replacement lid Gray	65235D	21,80
Replacement lid Light gray	65234D	22,40



CEE-Input socket rectangular

① CEE input socket rectangular with seal and hinged cover, plastic. Size: 70 x 135 x 65 mm.			② Rubber seal for CEE socket rectangular. Size: 70 x 135 x 65 mm.		
White	82140	16,95	White	821401	2,50
Black	821400	16,95	Black	821404	2,50
			③ Replacement lid rectangular		
			Black	821402	7,50
			White	821403	7,50



CEE input sockets + spare cover square

① CEE input socket square with seal and hinged cover. (Built-in pot round) Size: 105 x 105 mm.

CEE socket, White	82149	12,95
Replacement lid for 82149, White	821493	6,--
CEE socket, Black	821490	12,95
Replacement lid for 821490, Black	821492	6,--
CEE socket, Beige	820116	16,70
	820116L	
Replacement lid for 820116, Beige	820146	10,10
CEE socket, Anthracite	82011	21,50
	82011L	
Replacement lid for 82011, only available in black	820146	10,10

② Rubber seal for CEE socket square. Size: 105 x 105 mm.

White	821491	2,50
Black	821494	2,50

CARBEST
INNOVATIONS FOR MOBILE LIFE

CEE surface-mounted power socket

Ideal for concealed installation in the engine compartment (e.g. on T5) with cover 3-pole 230 V / 16 A.

82008 13,90



CEE built-in socket

Silver colored plastic housing with hinged screw cap. IP 66, also suitable for boats. W75 x H82 mm, installation depth 73mm, installation Size 37 mm.

820130 86,95



CARBEST
INNOVATIONS FOR MOBILE LIFE

CEE socket

CEE coupling for fixed mounting. Ideal for taking outside power e.g. at campsites with hinged lid, plastic. For power collection at campsites, garages or car-ports etc.

82091 8,80



Overvoltage protection OVP01

Protects against damage caused by overvoltage in the 230 V mains. Protection against overvoltage at the campsite (up to 2000 watts consumer load). Disconnects from the mains in 10 milliseconds. Restart as soon as normal values are available. Incl. 1 m adapter cable, KG plug, KG socket. U-Out > 265 V. Max: 10 A. Size: H 58 mm x W 148 mm x D 95 mm. Weight: 200 g.

82059 139,50



**CEE angle plug**

For a kink-free connection to the power column or socket.

820302 6,95

**CEE angle coupling**

CEE 17 European coupling with integrated Schuko socket and hinged cover, suitable for CEE input sockets.

82030 7,95

**CEE coupling**

Suitable for connection to CEE input sockets.

82032 4,95

**CEE plug**

Suitable for camping CEE junction box and CEE couplers

82031 5,20

**Adapter CEE/Schuko**

CEE adapter with cover

82007 9,50

**2-fold distributor**

CEE plug/2-way CEE distribution socket with hinged cover

82301 13,95

**Adapter Schuko/CEE**

CEE plug / earthed coupling with cover.

82044 15,95

**Plug GB**

to CEE coupling, H=7RN-F Cable 3 x 2.5 mm². Ca. 20 A.

0,4 m 821543 8,30
1,5 m 821546 8,90

**CEE Safebox**

To protect against moisture. With lock, L 365 mm, Ø 100 mm

820432 9,95



Fig. shows
1.5 m cable

**Adapter Schuko / Angle**

Schuko plug/CEE angle coupling with additional Schuko socket. Prevents kinking of the cable. SB Pack. H07 RN-F 3 x 2.5 mm².

1,5 m* 82020 15,50
25 m* 820201 84,95
H07 RN-F 3 x 1,5 mm² (only for export) 82025 12,99

**Adapter CEE/Schuko**

CEE plug/rubber coupling H07RN-F 3 x 2.5 mm²

1,5 m 82022 12,95
0,4 m 820221 9,95
H07 RN-F 3 x 1,5 mm² (only for export)
0,4 m 820261 8,95

**Adapter Schuko/CEE**

Schuko plug/CEE coupling, H07RN-F 3 x 2.5 mm²

0,4 m* 820211 12,95
1,5 m* 82021 16,95
4,0 m* 820212 19,95
25 m* 820213 79,95
H07 RN-F 3 x 1,5 mm² (only for export)
0,4 m 8202110 7,90

*also suitable for France



NEW
2023

**CEE adapter cable CH**

Adapter cable H=7RN-F 3 x 2,5 mm² with CEE plug and coupling (CH). CEE plug: 16A/250V, coupling 10A/250V. 10A glass fuse in overmolded fuse holder according to IP44. Length: 1.5 m

821547 46,90



NEW
2023

**CEE adapter cable CH**

Adapter cable H=7RN-F 3 x 2,5 mm² with plug (CH) and CEE coupling. Plug (CH): 10A/250V, CEE coupling 16A/250V. 10A glass fuse in overmolded fuse holder according to IP44. Length: 1,5 m

821548 43,90

Cables with 3 x 1.5 mm² are not approved for camping in Germany!

CARBEST
 INNOVATIONS FOR MOBILE LIFE

Professional CEE cable drum for many applications

① **CEE cable drum** 3 pole CEE plug (on the drum) and CEE coupler (on the short end). Campsite approval up to 25 m. 16 A, H07 RN-F 3 x 2.5 mm².
 25 m **820481** **99,-**

② **CEE cable drum** H07 RN-F 3 x 2.5 mm². 2 Schuko/ 1 CEE socket, thermal protection switch.
 25 m **82027** **119,-**

③ **CEE cable drum** 3 pole CEE plug (on the drum) and CEE angle coupling and Schuko coupling (on the short end). Campsite approval up to 25 m. 16 A, H07 RN-F 3 x 2.5 mm².
 25 m **820483** **109,-**



CEE extension cable

Neoprene rubber cable. Transport bag included. Suitable for outdoor use. Incl. Carrier bag

H07RN-F, 3 x 2.5 mm ²		
10 m	82018	59,95
25 m	820181	89,95
H07RN-F, 3 x 1.5 mm ² (only for export)		
10 m	82024	29,95
25 m	820242	57,95
40 m (without bag)		
	820244	69,90



CEE plug/angle coupling

With additional . Schuko socket. 3 x 2.5 mm²

1,5 m	82036	21,95
15 m	820362	54,95
25 m	820361	85,95

With additional . Schuko socket. 3 x 1.5 mm² (for export only)

20 m	82204	39,95
30 m	822041	44,90



CEE connection cable

CEE plug/coupling, 3 x 2.5 mm, L 1.5 m.

82035	16,95
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Automatic cable drum

Cable drum for wall mounting. With 1 + 15 m cable and CEE plug. Ideal for mounting in the garage or carport. With thermal fuse. Ø ca. 32 cm, W ca. 12 cm. 3 x 2.5 mm² H07RN-F. Max. 16 A.

15 m	82211	239,-
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59,95

Power strip

3-fold socket strip with three Schuko sockets and cover caps, 10 m connection cable + CEE plug. Residual current circuit breaker 0.03 A + double circuit breaker 10 A. In plastic housing with suspension device. 2 clamps Ø 21 mm to clip on tent poles. 3 x 1.5 mm² (for export only)

10 m	82210	59,95
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Power strip

3-fold socket strip with three Schuko sockets and cover caps, 10 m connection cable with CEE plug. Plastic housing. H07 RN-F 3 x 2.5 mm².

10 m	82208	34,90
As 82208 but with 3 x 1.5 mm ² (for export only)		
1,5 m	82209	15,95
5 m	822091	17,95

Cables with 3 x 1.5 mm² are not approved for camping in Germany!



3^{he}
SET

CARBEST
INNOVATIONS FOR MOBILE LIFE

Cable set

Neoprene rubber cable H07RN-F, 3 x 2.5 mm², 25 m. Including hand cable drum for rolling up the extension cable of max. 35 m and comfortable transport bag. Size: Ø 40 cm, width: 14 cm, SB package.

820200 94,95



World travel plug set

Suitable for North and South America, North and South Europe, Africa, Asia, UK and Hong Kong. The 4 connectors can be plugged into each other for transport. Weight: ca. 150 g

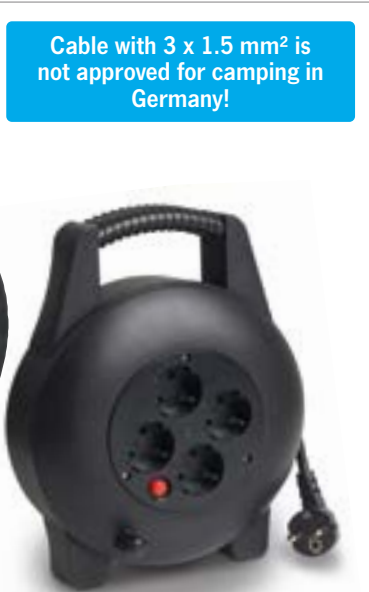
820402 6,70



Cable drum with 4 sockets

Rubber cable with Schuko plug and 4 Schuko sockets with cover. For indoor use. Self-service package, splash-proof. H05 RR-F 3 x 1.5 mm² (for export only) 25 m

820451 69,95



Cable drum with 4 sockets

Rubber cable with Schuko plug and 4 Schuko sockets with cover. For indoor use. Self-service package, splash-proof. H05 RR-F 3 x 1.5 mm² (for export only) 7,5 m

82153 17,95



CARBEST
INNOVATIONS FOR MOBILE LIFE

Hand cable drum

for rolling up the extension cable of max. 35 m, cable 2.5 mm²

82009 11,95



CARBEST
INNOVATIONS FOR MOBILE LIFE

Cable transport bag

Convenient transport of cables. Suitable e.g. for hand cable drum (Art.-No.: 82009). Size: Ø 40 cm, width: 14 cm, SB package.

820292 9,95



CARBEST
INNOVATIONS FOR MOBILE LIFE

Schuko distributor plug

① 2-fold socket with cover flaps 82201 6,40
② 3-fold socket with cover flaps with 1.5 m connection cable. H07 RN-F 3 x 2.5 mm². 82202 10,95



CARBEST
INNOVATIONS FOR MOBILE LIFE

Plug / Coupling

① Schuko rubber plug SB Pack. 82033 2,95
② Schuko rubber coupling SB Pack 82034 4,30



CARBEST
INNOVATIONS FOR MOBILE LIFE

Power strip

Extension distributor Schuko/Schuko Schuko plug to socket strip with hinged covers. For indoor use. With 2.5 m cable, H05 RR-F 3 x 1.5 mm².
5-fold 82151 14,90
4-fold 82152 13,95



CARBEST
INNOVATIONS FOR MOBILE LIFE

Schuko safebox

to protect against moisture. Box without lock, L 210 x Ø 70 mm. 820431 3,95



CARBEST
INNOVATIONS FOR MOBILE LIFE

Cable tie with handle

for bundling, carrying and stowing, can be used again and again. Suitable e.g. for 25 m cable (H07 RN-F 3G 2.5) or e.g. for 40 m cable (H07 RN-F 3G 1.5). Self-service packaging. 820091 4,95



CARBEST
INNOVATIONS FOR MOBILE LIFE

Schuko distributor with 1.5m cable

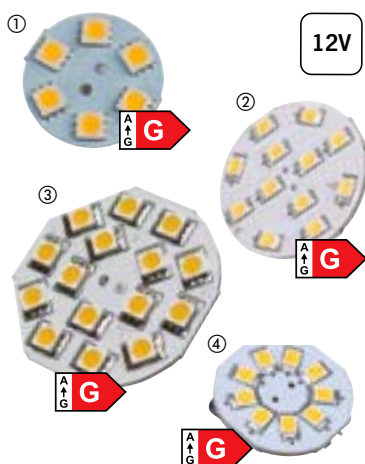
Extension distributor Schuko/Schuko Schuko plug to double Schuko socket. With 1.5 m cable and 2 lids. H07 RN-F 3 x 2.5 mm². 82006 7,95

SMD LED technology

- Intended for use in motorhomes with fluctuating 12V voltage
- SMD LEDs for very bright warm white light (min. 3.000 K)
- Up to 90% power saving compared to incandescent lamps
- Insensitive to voltage peaks (10 - 30 volts)
- Up to 5 times the life of incandescent lamps (25,000 hrs.)

LED flat board with pins at the back

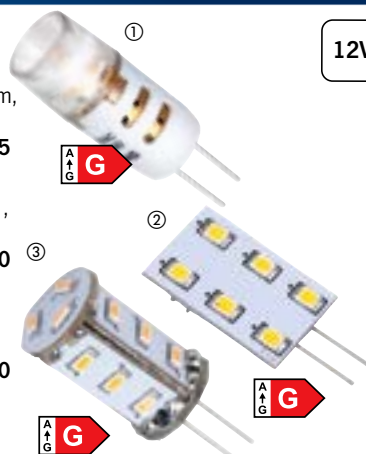
- ① 6 x SMD, 1,5 Watt, 120 lm, angle 120°, Ø 26 x 8 mm, base G4, dimmable. **830323 5,90**
- ② 12 x SMD, 2 Watt, 160 lm, angle 120°, Ø 30 x 8 mm, base G4, dimmable. **830324 5,90**
- ③ 15 x SMD, 3 Watt, 200 lm, angle 120°, Ø 35 x 8 mm, base G4, Not dimmable. **830325 5,90**
- ④ 9 x SMD, 1,5 Watt, 120 lm, angle 120°, Ø 25 x 8 mm, base G4, dimmable. **830326 5,90**



12V

Pin-base LEDs

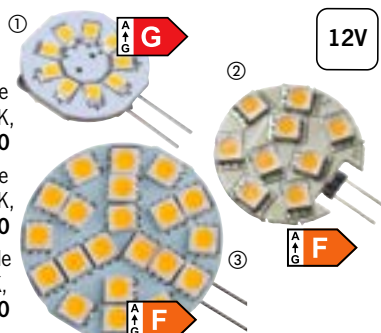
- ① 4 x SMD, 1,5 Watt, 60 lm, angle 120°, base G4, Ø 11,2 x H 23,5 mm, not dimmable. Warm white 3000K. **830320 5,95**
- ② 6 x SMD, 1,2 Watt, 90 lm, angle 120°, W 18 x H 27,5 mm, base G4, dimmable. **830321 5,90**
- ③ 15 x SMD, 1 Watt, 82 lm, angle 360°, Ø 12 x H 22 mm, base G4, dimmable. Warm white 3000K. **830322 5,90**



12V

LED flat board with side pins

- ① 9 x SMD, 1,5 Watt, 120 lm, angle 120°, Ø 25 x 8 mm, base G4, 3000K, dimmable **830326 5,90**
- ② 9 x SMD, 1,5 Watt, 150 lm, angle 120°, Ø 27 x 8 mm, base G4, 3000K, dimmable **830327 7,90**
- ③ 21 x SMD, 3,0 Watt, 270 lm, angle 120°, Ø 35 x 8 mm, base G4, 3000K, not dimmable **830328 7,90**



12V

Cold mirror, not dimmable

- ① **MR 11** - 9 x SMD, 1,5 Watt, 120 lm, aluminum, angle 120°, Ø 34,5 x H 39 mm, base GU4. **830336 8,90**
- ② **MR 16** - 4 x SMD, 5 Watt, 290 lm, aluminum, angle 120°, Ø 50 x H 54 mm, base GU5.3. **830337 8,90**



12V

Latest generation COB LED technology

- Very high luminous efficacy per square centimeter
- Fewer components per LED chip
- Reduced heat generation
- Low light loss, increased Scattering angle
- Very bright warm white light (ca. 3.000 K)
- No more need for lenticular stems



12V

G4 COB bulb

1 x COB LED, 12 V, 1,5 Watt, 100 lm, G4 base, COB bulb in silicone jacket, 3,000 K, non-dimmable, IP20, angle 220°, Size: Ø 10 x 22 mm.

830329 7,90



12V

G4 COB bulb

1 x COB LED, 12 V, 2 Watt, 200 lm, G4 base, COB bulb in silicone jacket, 3,000 K, not dimmable, IP20, angle 360°, Ø 10 x 30 mm.

830331 9,95



12V

G4 COB bulb

5 x COB-LED, 12 V, 5 Watt, base G4, COB illuminant, aluminum, 3,000 K, 400 lm, not dimmable, IP20, angle 120°, Size: W 15,3 x H 33 mm.

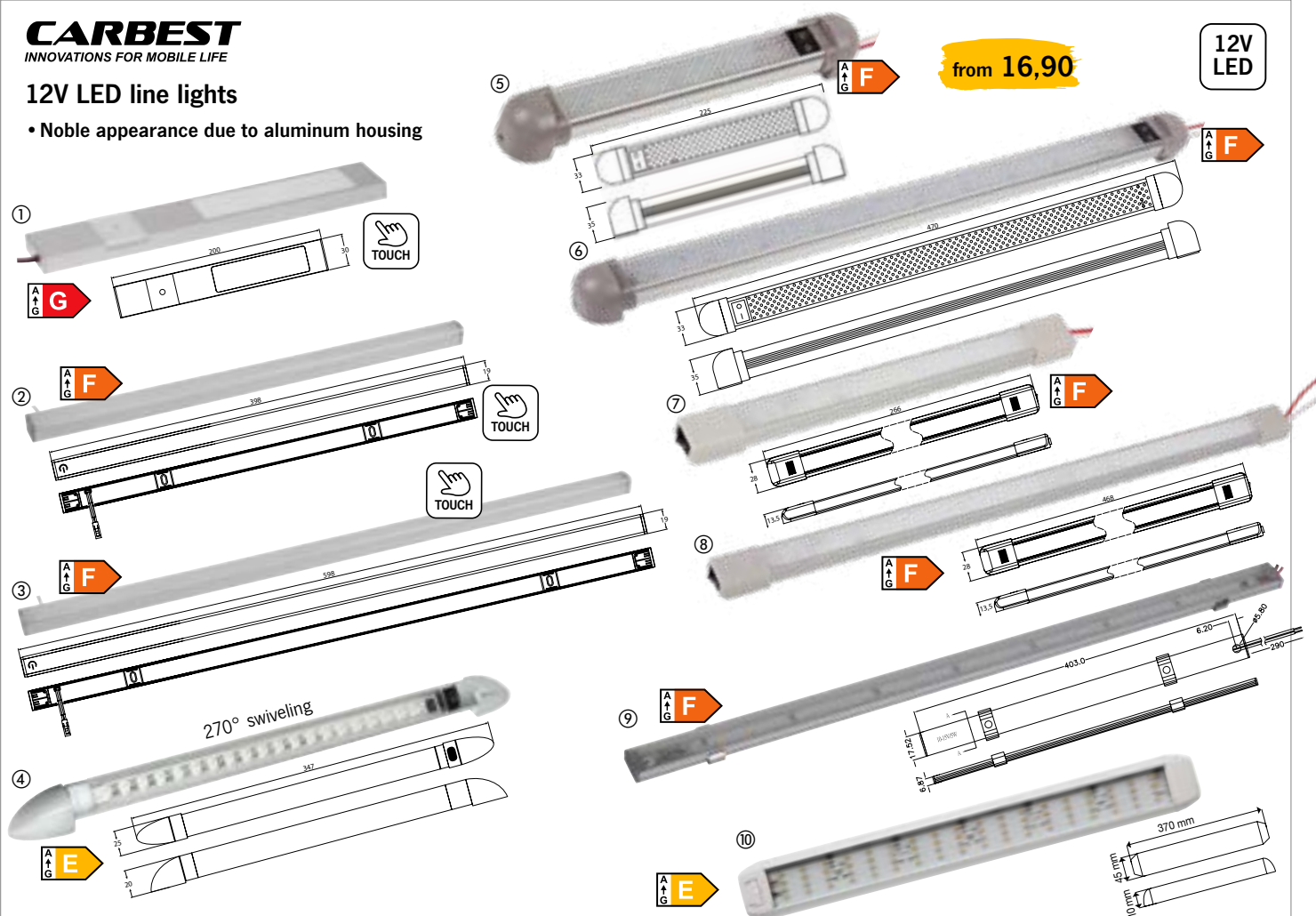
830332 8,90

12 VOLT LED LINE LIGHTS

CARBEST
INNOVATIONS FOR MOBILE LIFE

12V LED line lights

• Noble appearance due to aluminum housing



	①	②	③	④	⑤	⑥	⑦	⑧	⑨	⑩
Volt	12 V	12 V	12 V	12 V	12/24 V	12/24 V	12/24 V	12/24 V	12 V	12 V
Watt	3,3 W	5 W	7 W	2,8 W	2 W	6 W	3,6 W	7,2 W	5 W	4 W
LEDs	18	27	42	18	10	30	18	36		72
Lumen	185	360	470	288	180	520	340	570	400	432
Kelvin	3.000 K	3.000 K	3.000 K	3.000 K	3.000 K	3.000 K	3000 K	3000 K	3000 K	3.000 K
Switch	Yes (Touch)	Yes (Touch)	Yes (Touch)	Yes	Yes	Yes	Yes	Yes	-	Yes
Length	20 cm	40 cm	60 cm	34,7 cm	22,5 cm	47,0 cm	26,6 cm	46,8 cm	40,3 cm	37 cm
Wide	3 cm	1,9 cm	1,9 cm	2,5 cm	3,3 cm	3,3 cm	2,8 cm	2,8 cm	1,75 cm	4,5 cm
Height	1 cm	-	-	2,0 cm	3,5 cm	3,5 cm	1,35 cm	1,35 cm	0,68 cm	1 cm
Item no.	83671	83674	83675	835571	83241	83242	83243	83244	830340	83992
Price	16,90	21,95	29,90	33,90	18,90	39,90	19,90	33,90	26,95	42,90

12V
LED



12V LED line lights

- ① **LED light Lava** with on/off switch, 12 V, 4 Watt, hole spacing: 25 cm
Housing color silver **83139 41,95**
- ② **Linear spot for diffused light** with double switch. Night light 6 LEDs, Normal light 24 LEDs, Matte plexiglass shade, Carrier plexiglass mirrored. 12 V, 0,3 W or 1,3 W. Size: ca. 296 x 38 x 10 mm. Bore: Ø 20 x 20 mm. Height required for switch, hole spacing: 22 cm **833831 34,60**

Individual illumination with the power rail system

12V

① Track system silver, warm white 3000K

12V rail system in lengths 700 mm and 1200 mm.

With 2 movable LED spots with 1.5 watts each.

Light color: Warm white 3000K. Color: Silver lacquered.

Note: A maximum of 8 LED spots may be used per power rail.

Rail length 700 mm	832795	59,80
Rail length 1200 mm	832796	71,80

② busbar system black

12V rail system in lengths 700 mm and 1000 mm.

Without LED spots. Color: Black. Note: A maximum of

8 LED spots may be used per power rail.

Rail length 700 mm	832785	26,80
Rail length 1000 mm	832786	32,90

③ NEW: Supplementary spotlight with on/off switch for track system

Moving LED spot, 1 watt. Light color: Warm white 3000K.

Note: A maximum of 8 LED spots may be used per power rail.

Size: ca. 51x19x36 mm

Silver, for conductor rail system 832795/832796	832799	14,90
Black, for conductor rail system 832785/832786	832800	15,90

④ USB port for power rail system

Silver lacquered	832798	19,90
Black lacquered	832788	19,90



DOMETIC OUTDOOR

26,35

Power rail kit

① Dometic busbar kit

Length of the conductor rail: 1000 mm. Length connection cable: 800 mm. Delivery includes end caps.

83423	26,35
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② 2 A USB charging adapter

83427	37,85
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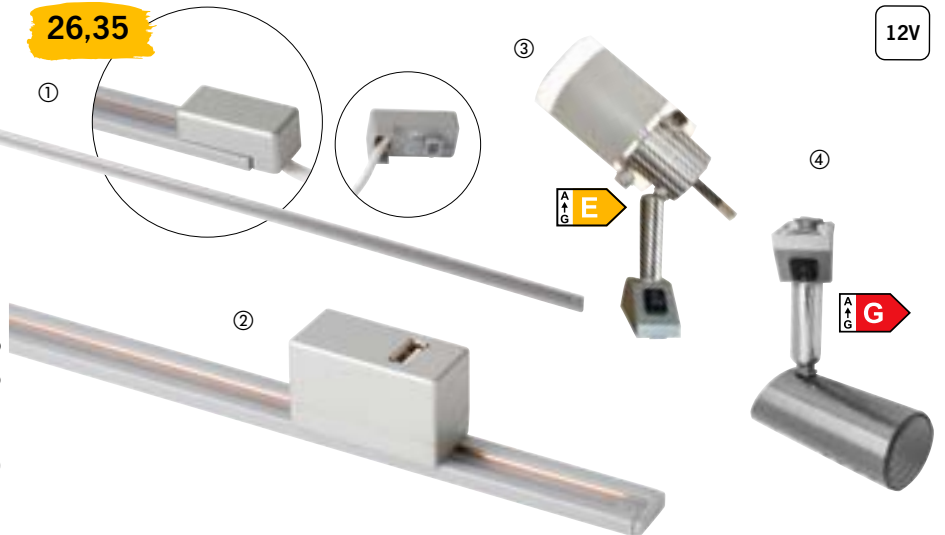
③ LED track spot

LMC/Dethleffs 12 V/2 W, real glass

83426	43,59
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④ LED spot Kim 12 V/1.8 W

83424	36,76
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12V



12 VOLT LED SURFACE MOUNTED LIGHTS WITH NIGHT LIGHT FUNCTION

CARBEST
INNOVATIONS FOR MOBILE LIFE

12V LED

WITH NIGHT LIGHT



LED light Down Light Slim

- With touch switch
- Very flat plastic housing
- Light white/blue switchable

Round ceiling lamp with 2 light colors. 36 warm white LEDs (4900-5300 K, 576 lumens) or 6 blue LEDs as night light. 5.7 W, beam angle 120°. Size: Ø 130 x 10 mm. Not dimmable.

835490 49,95



CARBEST
INNOVATIONS FOR MOBILE LIFE

12V LED

WITH NIGHT LIGHT



LED Light Mini Slim Down Light

- Touch switch
- Light white/blue switchable

Round LED light with 2 light colors. 12 warm white LEDs (3000 K, 192 lumens) or 6 blue LEDs as night light. 1.9 W. Beam angle 120°. IP66. Size: Ø 69 x H 9.6 mm. Not dimmable.

835491 24,90

CARBEST
INNOVATIONS FOR MOBILE LIFE

12V LED

WITH NIGHT LIGHT

54,90



LED light SlimLite

- Flat surface mounted light
- With push button switch (On/White/Blue)
- Aluminum colored plastic housing

Rectangular ceiling lamp with 2 colors of light. 36 warm white LEDs (4000 K, 576 lumens) or 12 blue LEDs as night light. 5.7 W, beam angle 120°. Housing silver with switch. Size: 185x110 mm. Not dimmable.

835492 54,90

CARBEST
INNOVATIONS FOR MOBILE LIFE

12V LED

WITH NIGHT LIGHT



LED ceiling light

- Light white/blue switchable

Ceiling light with 36 white LEDs and 12 blue night light LEDs. Silver with switch. Size: 156 x 124 x 13.5 mm, 450 lumens, 7 watts.

83536 49,95

CARBEST
INNOVATIONS FOR MOBILE LIFE

12V LED

WITH NIGHT LIGHT



Surface mounted LED spotlight

- 6 x blue night light LEDs
- 12 white LEDs

1.9 W / 192 lumens, Size 84 x 10 mm, with switch. Not dimmable.

83996 27,95

CARBEST
INNOVATIONS FOR MOBILE LIFE

TOUCH

12V LED



Surface mounted LED spot

Surface mounted spot HT223 with 6 LED module 3030 with 10 mm thick acrylic glass pane.

With switch **83420 25,40**
Without switch **834201 21,40**

CARBEST
INNOVATIONS FOR MOBILE LIFE

12V LED



LED ceiling light

- Touch switch center
- 3-stage switching (weak, medium, bright)
- Design: silver

Round LED ceiling light, silver glossy. 12 V, 7 W, 447 lumens, warm white 3000 K. With touch switch, IP44. Size: Ø 175 mm, height: 18 mm. Not dimmable.

835721 39,95

Intended use of all lights and lamps in this catalog: For exclusive 12 V battery operation and use in recreational vehicles.

12 VOLT LED SURFACE MOUNTED LIGHTS / CEILING LIGHTS

12V
LED



24,95

LED light

12 Volt, LED, 4 W, plastic, color white, with switch. Size: 248 x 64 x 35 mm.
83562 24,95

12V
LED



Storage space light

12 volts, 3 watts, 4,200 K. Plastic housing. Size: L 180 x W 105 x H 35 mm. 6.48 W - 2 x 39 LEDs. Used, for example, at Adria.

83271 12,20

12V
LED

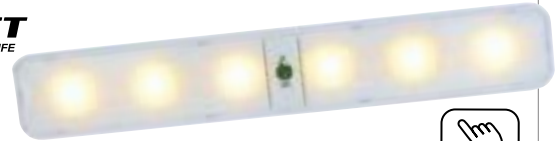
USB Battery LED Cabinet Light

Battery operation (1400 mA) Integr. Motion detector and main switch. Automatic shutdown after 20 seconds. With retaining clip, for easy removal of the light. Rechargeable via USB. Charging cable (60 cm) enclosed. Light time ca. 9 hrs, charging time ca. 3 hrs. LED light 0.5 W. Size: L 102 x W 85 x H 10 mm.

83489 38,70



CARBEST
INNOVATIONS FOR MOBILE LIFE



LED battery light with radio switch

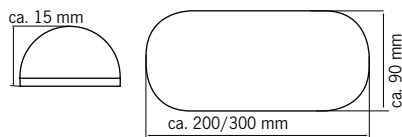
- Ideal for the Reimo CampingBox
- Up to ca. 56 hours of lighting time with only one set of batteries
- Radio switch with up to ca. 35 meters range (free area)
- Extremely bright

6 white LEDs, 55 lumens. Touch switch on the luminaire. Additional radio switch (range ca. 35 m) for on and off. Mounting possible by screws or adhesive strips. Size radio switch: 85x85x20 mm, Size lamp: 300x50x20 mm. 3 x AAA battery for the switch and 4x AA battery for the light (not included). Mounting hardware included.

83154 25,90



CARBEST
INNOVATIONS FOR MOBILE LIFE



LED surface mounted luminaires

- Flat aluminum housing (height ca. 15 mm)
- With diffusing lens for glare-free light
- Beam angle 120°, warm white 3200 K

Aluminum housing with silver-gray plastic end caps.

Length: 200 mm: 3 W, 48 LEDs, 288 lumens

Length: 300 mm: 6 W, 96 LEDs, 570 lumens



12V
LED

83539 36,90

83546 59,90

12V
LED



LED surface mounted luminaire Magma

Silver matte, LED insert 14 SMD LEDs. Size: 5 x 10 x 3 cm.

83136 28,95



Fewer insects in the vehicle due to red light

12V
24V

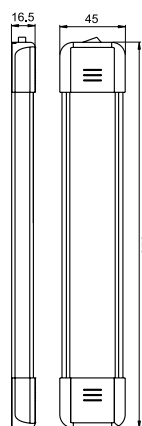


LED surface mounted luminaire Dual Colour

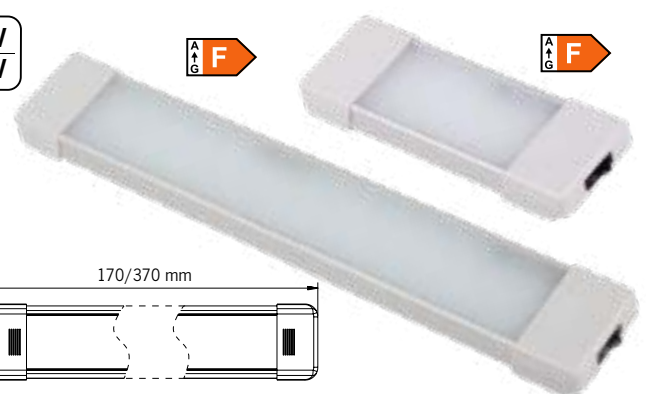
- Warm white light (3000K) for cozy ambient lighting
- Red light to not attract insects
- Sturdy aluminum housing
- Easy mounting: screw or glue

The 12/24V Dual Color LED light is equipped with 12 warm white SMD LEDs and additional 12 red SMD LEDs. Color change takes place via switch. Size: 270 mm long, connection cable ca. 30 cm.

83589 36,95



12V
24V



CARBEST
INNOVATIONS FOR MOBILE LIFE

LED surface mounted luminaires

- Shapely aluminum housing
- Frosted glass pane

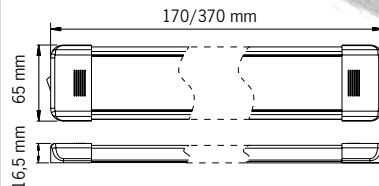
Noble appearance due to aluminum housing. 12/24V, with on/off switch. 3000K. IP65. Not dimmable.

Length: 170mm, 18 LEDs, 4 W, 348 lumens

Length: 370mm, 54 LEDs, 11 W, 979 lumens

83245 16,90

83246 39,95



12 VOLT LED SURFACE LIGHTS / WALL LIGHTS

CARBEST
INNOVATIONS FOR MOBILE LIFE



12V
LED



LED wall and ceiling lamp round

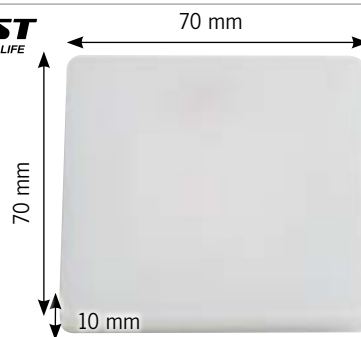
- ON/OFF switch integrated
- Design: opal white

LED wall and ceiling light with switch for surface mounting. 12 V, 3 W, 190 lumen, 3000 K. Beam angle 120°. Diameter: 75 mm. Height: 10 mm. Not dimmable.

833731

12,95

CARBEST
INNOVATIONS FOR MOBILE LIFE



12V
LED



LED wall and ceiling lamp square

- Square shape
- Very flat and inconspicuous
- Design: opal white

LED wall and ceiling luminaire for surface mounting. 12 V, 3 W, 190 lumens, 3000 K. Beam angle 120°. Size (LxWxH): 70x70x10 mm, Not dimmable.

833732

12,95

CARBEST
INNOVATIONS FOR MOBILE LIFE



Super flat LED panel

- Silver frame only 5 mm high
- 2 m connection cable
- Dimmable, beam angle 360
- Warm white light with 3,000 K

① 100 x 200 mm: 12 V/4 W, 54 LEDs, 300 lumens

833691

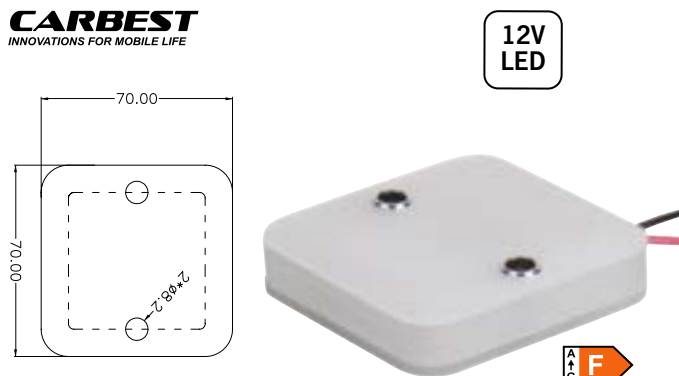
33,95

② 100 x 100 mm: 12 V/3 W, 24 LEDs, 184 lumens

83369

21,90

CARBEST
INNOVATIONS FOR MOBILE LIFE



12V
LED



LED area light

LED area light for wall and ceiling, made of plastic in white, 12 V, 5 Watt, 350 lm, 33 SMD LEDs. Color temperature 3000 K, beam angle 180°.

Size: 70 x 70 x 14.5 mm

830341

17,95

Size: 130 x 130 x 14.5 mm

830342

26,95



① LED reading light with mini spot

Can be used as recessed or surface mounted luminaire. With movable mini-spot and indirect lighting. 3-position switch (ON/SPOT/OFF). 12 V, 0.4 W + 2.5 W (spot). Silver colored plastic case.

Size: L x W x H 155 x 60 x 35 mm.

83592 36,90

② LED wall light with 2 USB ports

Elegant design and exclusive styling. With integrated switch and 2 USB ports (1 A each). 12 V, 3 W. Black housing.

Size: L x W x H 237 x 40 x 14 mm.

83593 35,50

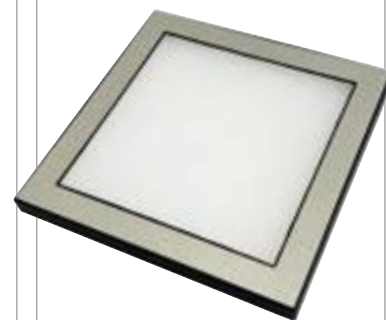
③ LED wall lamp

Elegant design and exclusive styling. With integrated switch. 12 V, 3 W. White housing.

Size: L x W x H 230 x 40 x 13 mm.

83597 32,50

18,90



12V
LED



LED area light

Made of polycarbonate with removable magnetic frame for hidden mounting. 12 V, 250 lm, beam angle 120°. Size: 100 x 100 x 7 mm

Chrome brushed

83587

18,90

Intended use of all lights and lamps in this catalog: For exclusive 12 V battery operation and use in recreational vehicles.

12 VOLT SURFACE MOUNTED LIGHTS

CARBEST
INNOVATIONS FOR MOBILE LIFE

12V
LED



LED wall and ceiling lamp round (50 mm)

- Touch switch center
- Design: chrome

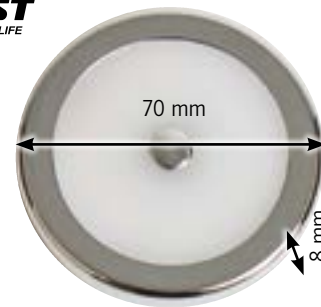
LED wall and ceiling light with touch switch for surface mounting. 12 V, 1.5 W, 73 lumens, 3000 K. Beam angle 120°. Glossy chrome, material: aluminum. Protection class: IP60, Size: Ø 50 mm, height: 8 mm. Not dimmable.

833733

16,90

CARBEST
INNOVATIONS FOR MOBILE LIFE

12V
LED



LED wall and ceiling lamp round (70 mm)

- Touch switch center
- Design: chrome

LED wall and ceiling light with touch switch for surface mounting. 12 V, 3 W, 150 lumens, 3000 K. Beam angle 120°. Glossy chrome, material: aluminum. Protection class: IP60, Size: Ø 70 mm, height: 8 mm. Not dimmable.

833734

19,90

Wall and ceiling lights

12 V, warm white 4000 K, beam angle 120° plastic, white or chrome.

① Ø 168 mm, H9mm. 250 lumens, 5.5 W.

83268 33,90

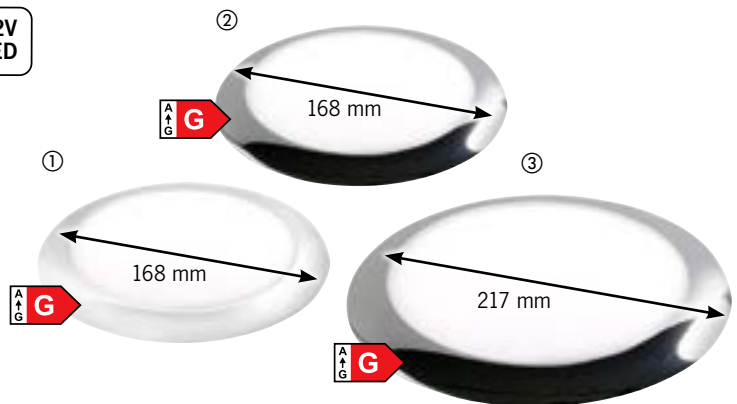
② Ø 168 mm, H 9 mm. 250 lumens, 5.5 W.

83269 40,50

③ Ø 217 mm, H 11 mm. 290 lumens, 6.5 W.

83270 54,90

12V
LED



12V
LED



Mini cabinet light

LED cabinet light 0.8 W with magnetic contact. Turns on when the cabinet door is opened. Ready module with counter plate for the flap or door. Size: L 30 x W 30 x H 19 mm. 6.000 K. Color: silver.

83273

12,90

CARBEST
INNOVATIONS FOR MOBILE LIFE

12V
LED



Ceiling spot Wave

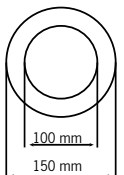
3 white LEDs with switch. Ø 105 x H 24 mm. Plastic/metal, silver, swiveling. 3 x 1 W/80 lumens. Not dimmable.

83533

46,95

CARBEST
INNOVATIONS FOR MOBILE LIFE

12V
LED



Wall ceiling light with switch

With night light and 3-step switch: ON/OFF/ 50%. 18 SMD LEDs, 3 watts, 288 lumens. Warm white 3400 K. Ø 150 mm. Color: silver gray. Not dimmable.

832381

32,95

CARBEST
INNOVATIONS FOR MOBILE LIFE

12V
24V



LED Spotlight

12V LED spotlight, color: white, 3000K, 2 W, 12 SMD LEDs, 190 lumens, ABS housing. Size: Ø 75x18mm. IP67. Not dimmable.

83373

9,99



12V
LED



24,90

LED surface mounted spotlight with touch switch

1 watt, 18 SMDs, Size: 68 x 23 mm.

834691

24,90

12V
LED



Surface mounted LED spotlight

LED surface mounted spotlight, swiveling, chrome, easy installation, 12V, 1,3 W, 3.000 K, Size: Ø 100 mm, H 40 mm

833833

21,40

12 VOLT RECESSED LIGHTS



NEW
2023

12V
LED

COB recessed spotlight metal

Lamp Ø 68 mm, 12 V, 3 W, 3,000 K, 95 lumens, bore 52 mm, color black,

83622

24,90



NEW
2023

TOUCH

12V
LED

LED recessed spotlight metal

• With touch switch

Luminaire Ø 68 mm, 12 V, 1.56 W, 3,000 K, 95 lumens, bore 52 mm, brushed aluminum,

83623

23,50

NEW
2023

12V
LED



83626

15,50

NEW
2023

12V
LED



83625

15,50

LED recessed spotlights Vega 48

Luminaire Ø 48 mm, recessed Size: Ø 48 x D 10 mm, 12-14 V, 1 W, 3,000 K, 80 lumens.

Steel Black	83626	15,50
Steel brushed	83625	15,50

12V
LED



1

2

3

4

5

6

LED recessed/under cabinet light
Modular system with freely selectable housing shapes

① **12V LED recessed/under-cabinet light**, 3W, 210 lumen, 6 LEDs, 3000K. Material: aluminum. Supplied without connection cable. (The 83585 cable is mandatory for connecting the light)

835801	17,90
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② **Substructure housing round, flat**, Color: black matt, material, plastic, Size: 65 x 2,6 mm

83581	3,40
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③ **Installation housing round, high**, Color: black matt, material, plastic, Size: 65 x 15.6 mm

83582	3,40
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④ **Installation housing square, flat**, Color: black matt, material, plastic, Size: 65 x 65 x 2.6 mm

83583	3,40
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⑤ **Substructure housing square, high**, Color: black matt, material, plastic, Size: 65 x 65 x 15.6 mm

83584	3,40
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⑥ **Connection cable** 1000 mm, suitable for recessed/underground luminaire 83580, with snap-in connector

835802	3,20
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12 VOLT RECESSED LIGHTS

12V LED



LED recessed spotlight

- 14 LEDs
- Touch switch in frame

Light with clamp mount, with 14 LEDs. 0,5 W, Ø 75 mm

83598 37,40

12V 24V



Adjustable LED recessed spotlight

Made of clear polycarbonate, aluminum base. 150 lm, IP20, beam angle 120°, Ø 51.6 mm color: black.

83576 22,95

12V 24V

TOUCH



Adjustable LED recessed spotlight

- On/Off touch switch

Made of polycarbonate, nylon and chrome. 200 lumens, IP20, beam angle 120°. Ø 69 mm.

83579 24,20

CARBEST
INNOVATIONS FOR MOBILE LIFE



12V LED

Stainless steel LED spot

LED spot, 12 V, 1,7 W, brushed stainless steel, 3,000 K, 165 lumens, 9 LEDs. Size: ca. Ø 65 x 11 mm. Not dimmable.

83676 9,99

CARBEST
INNOVATIONS FOR MOBILE LIFE



12V LED

Stainless steel LED spot

LED spot, 12 V, 1,7 W, brushed stainless steel, 3,000 K, 180 lumens, 24 LEDs. Size: ca. Ø 65 x 11 mm. Not dimmable.

83670 9,99

12V LED

TOUCH



LED recessed spotlight

12 Volt, 1,6 W, 24 LEDs, metal, chrome-plated, 65 x 65 x 20 mm.

With switch **83158 21,95**
Without switch **83159 18,95**

12V LED

TOUCH



LED recessed spotlight

- In use on Adria vehicles

12 Volt, 1,6 W, 24 LEDs, brushed aluminum, 4000K, with touch switch, Size: 65 x 65 x 20 mm.

831581 18,50

CARBEST
INNOVATIONS FOR MOBILE LIFE



12V LED

LED spotlight, silver

LED spotlight, silver, easy installation, 12V, 2,7 W, 3,000 K, 200 lumens, Size: Ø 90 mm, H 11.5 mm. Not dimmable.

83673 9,99

CARBEST
INNOVATIONS FOR MOBILE LIFE



12V LED

Reading light

- 24 LEDs

With 24 SMD LEDs, 168 lumen, 1,9 W, 4000 K, warm white, Ø 63.2 mm, installation opening Ø 45 mm. Not dimmable.

83231 24,99

CARBEST
INNOVATIONS FOR MOBILE LIFE



12V LED

LED recessed spotlight

- Square shape
- Spot swivels
- Material: brushed aluminum

Adjustable LED recessed spot made of brushed aluminum. 65 x 65 x 16 mm, 108 lumens, 2 W, 3000 K. Not dimmable.

831582 16,90

DOMETIC OUTDOOR



12V LED

Recessed spotlight Manni

- With clamp mount

With clamp mount. Size: Ø 46 x 23 mm. 12 V/0.2 W LED.

83379 15,50

DOMETIC OUTDOOR



12V LED

Recessed spotlight swivel

Swivel LED recessed spotlight, 12 V/1.4 W, dimmable

83429 28,75

12V LED

TOUCH



Spot with touch switch

With touch switch. 1 watt, 18 SMDs, 66 x 18 mm. Bore 50 mm.

83469 31,80

12 VOLT LED DOWNLIGHTS / LED SPOTS

NEW
2023

LED mini recessed spot short

- Very small and compact
- Spot swivels
- Metal housing in black matt

Swivel LED recessed spot Ø 35 mm, with clamp bracket for easy installation. 12V, 0.4W, 22 lumens, bore: 30 mm. Matt black coated metal housing.

831583

14,90



NEW
2023

LED mini recessed spot long

- Very small and compact
- Spot swivels
- Metal housing in black matt

Swivel LED recessed spot Ø 35 mm, with clamp bracket for easy installation. 12V, 0.4W, 22Lumen, bore: 30mm. Matt black coated metal housing.

831584

16,90



NEW
2023

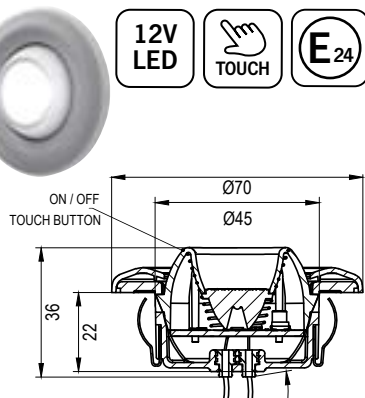
LED recessed spotlight made of ABS plastic

- With touch switch in spot
- Pivotal

Round LED recessed spot Ø 70, with clamp mount. 1x SMD LED, 12 V, 1 W, 60 lumen, IP 54, LED color warm white (3000 K). Bore: 45 mm. Silver matte

83620

29,90



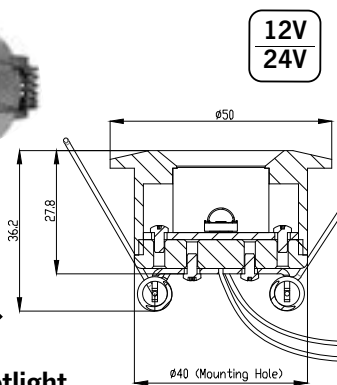
NEW
2023

Aluminum LED recessed spotlight

Round LED recessed spot Ø 50 mm, with clamp mount. 12 V, 1.5 W, 125 lumens, IP 54, LED color warm white (3000 K). Bore: 40 mm. Silver matte

83621

30,50



CARBEST
INNOVATIONS FOR MOBILE LIFE

12V
LED

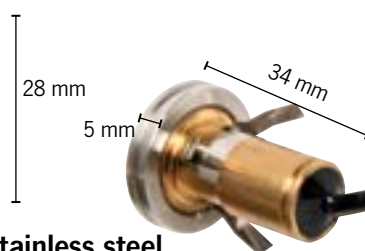
LED mini recessed spot stainless steel

- Very small and compact
- Clamp mount
- Stainless steel housing

Round stainless steel LED mini recessed spotlight with clamp mount. 12 V, 1 W, 53 lumens, warm white 3000 K. Beam angle 60°. Hole: 13 mm, IP65. Not dimmable.

837080

12,90



CARBEST
INNOVATIONS FOR MOBILE LIFE

12V
LED

LED mini recessed spotlight plastic

- Very small and compact
- Flat design (adds only 4 mm)

Round LED mini recessed spotlight made of plastic with mounting thread. 12 V, 1 W, 65 lumens, warm white 3000 K. Beam angle 120°. Bore: 15 mm. Not dimmable.

837081

12,90



4,70

Installation Mini Spot

Use for example with Adria Twin 0.06 watt white, housing chrome. 12 x 19 mm, Ø hole 17 mm.

83708

4,70



Recessed LED Micro Spot

Practical as a starry sky or entrance lighting. Ø 10 mm hole. Size Ø 15 x L 25 mm. Steel chrome plated. 10-14.4 V DC, 0.2 watts.

LED white

83387

7,90



Recessed LED Micro Spot

Practical as a starry sky or entrance lighting. Ø 10 mm hole. Size Ø 15 x L 25 mm. Steel chrome plated. 10-14.4 V DC, 0.2 watts.

LED blue

833871

7,90



LED base luminaire

With motion sensor. For mounting near the ground, optimal as an orientation light at night. Brushed stainless steel front cover. 12 Volt, 2700K, 0.3W, 3 LEDs, 4 Lumen, IP44

83586

21,95

Intended use of all lights and lamps in this catalog: For exclusive 12 V battery operation and use in recreational vehicles.

12 VOLT LED SURFACE MOUNTED SPOTLIGHTS

12V LED

TOUCH

CARBEST
INNOVATIONS FOR MOBILE LIFE

LED spot with touch switch and glass shade
12V, incl. night light function, material: brushed nickel, 3000K, 2W, 1x COB LED, 180 lumens, dimmable via touch switch, weight: ca. 300g.

83187 18,99

12V LED

USB

TOUCH

CARBEST
INNOVATIONS FOR MOBILE LIFE

LED spot with touch switch and USB port in base
12V, incl. night light function, glass shade, material: brushed nickel, 3000K, 2W, 1x COB LED, 180 lumens, dimmable via touch switch, weight: ca. 200g.

83189 29,90

12V LED

17,90

CARBEST
INNOVATIONS FOR MOBILE LIFE

Mini LED Spot
12V, material: metal, 3000K, 2W, 1x COB LED, 110 lumens. Length connection cable: 90 cm. incl. mounting screws. Size: LxWxH 5x1,8x5,8 cm.

83399 17,90

12V LED

TOUCH

CARBEST
INNOVATIONS FOR MOBILE LIFE

LED spotlight with touch switch and lampshade in white
12V, incl. night light function, elegant lampshade in white, material: chrome, 3000K, 2W, 1x COB LED, 180 lumen, dimmable via touch switch, weight: ca. 170g.

83188 27,99

12V LED

LED Spot Minutube D4

- With USB port in base (5V/2A)
- Black matte aluminum

Surface mounted LED spotlight with switch, material: aluminum. Color: black matt, mains voltage: 12 V, luminous intensity: 100 lm, 1.6 W, USB socket.

83611 49,90

12V LED

Reading light
Reading lamp with articulated arm and double acrylic cylinder white/clear.

83419 28,50

12V LED

TOUCH

Spot with touch switch
Micro spot, 12 volt, 1 W power LED, metal, chrome brushed with glass shade and touch switch, rotating and swiveling. Size: 95 x 55 x 100 mm.

83156 23,95

12V LED

Mini spot
12 Volt, 3 W Power LED, metal, chrome brushed with glass shade and touch switch with dimming function, rotates and swivels. Size: 95 x 55 x 100 mm.

83157 24,60

12V LED

26,90

LED spot with switch
12 volt, 2.5W power LED, metal, chrome brushed with glass shade and switch, swivel & tilt. Size: 95 x 55 x 100 mm.

831371 26,90

12V LED

TOUCH

LED sensor touch spot
With sensor touch switch, 1 watt. Chrome. Size: Ø 88 x H 27 mm.

83466 25,40

12V 24V

LED combi reading spot

- With 3-step switch
- Rotatable and swiveling
- Ambient lighting rear

Plastic, color: silver, voltage: 12-24 V, 1.2 W, 140 lm, color temperature: 3200 K, Size: 14 x 7 x 3.5 cm.

83559 27,95

Intended use of all lights and lamps in this catalog: For exclusive 12 V battery operation and use in recreational vehicles.

12/24 VOLT LED COCKPIT LIGHTS / LED GOOSENECK LIGHTS

12V LED

NEW 2023

60 mm
210 mm
Ø 50 mm

LED reading light Minitube D4

- With flexible arm
- USB port in base (5V/2A)

Surface mounted LED spotlight aluminum with switch, 12 V, 100 lm, 3000 K, 1.6 W.

NEW: Color chrome

83624	52,95
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Color black matte

83612	52,95
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12V LED

from 44,95

USB port

LED gooseneck light 12 V lights with switch and USB charging socket (1.5 A). Silicone coated, length: ca. 386 mm

① White 1,2 W	835901	46,95
② Black 1.2 W	83590	45,95
③ White 1.8 W	835910	45,95
④ Black 1,8 W	83591	44,95

12V LED

TOUCH

USB port

DOMETIC OUTDOOR

Gooseneck light with touch sensor

- LED light with touch switch
- 1A and 2A USB port for charging smartphones and tablets

10 to 15 V, 2 W, 3,000 K, 120 lm
Length ca. 37 cm

83393	76,90
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CARBEST INNOVATIONS FOR MOBILE LIFE

12V LED

29,90

Flexible LED Spot

2 W, 110 lumen, beam angle 90°, warm white 3400 K. With switch, total length 240 mm. Black color. Not dimmable.

83394	29,90
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CARBEST INNOVATIONS FOR MOBILE LIFE

12V LED

Flexible LED Spot

COB LED, 2 W, 100 lumen, beam angle 90°, warm white 3000 K, total length 300 mm. Color silver. Not dimmable.

83398	21,90
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Gooseneck light with USB

- Ideal for charging cell phones
- Very long, flexible neck
- Ideal for mounting in the sleeping
- 2-step switch
- With 2 x USB charging port

LED reading light, USB with 2-stage
and 2 x USB 5V/each 1A, chrome-plate minimum. 12 V/1.5 W, 4,000 K, 105 lm, angle 90°.

83321	54,50
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12V LED

TOUCH

USB port

Flexible LED light with touch switch

- 3 lighting levels
- 2A USB port to charge smartphones and table.

15 to 125 lumens. IP 20, 3000 to 4000 K, length: 280 mm.

83577	38,70
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12V LED

Cockpit light

Cockpit light 12 V 3 W LED, 150 mm arm, black

83306	67,50
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83306L

12V 24V

ONYX Copilot

LED reading light with switch, black

12 V/24 V, 0.5 W, 3,200 K, 20 lm, beam angle 120°, service life ca. 20,000 h. Length ca. 460 mm

For cigarette lighter

833082	33,50
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12V LED

TOUCH

Threaded foot M10

Cockpit light with screw thread

With switch, 18 SMD. Metal and silver color. 12 V/1.1 W, 90 lm, 3,200 K, beam angle 120°. Ø 42 mm, L 320 mm, thread M10/L 18 mm.

83346	28,50
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Cockpit lights 2 V / 5 W


Ready for installation, for fixed mounting. Ideal for mounting in the high or sleeping roof With diffusing lens for glare-free light

① L 600 mm	83309	62,45
② L 295 mm	83308	51,86

83308L

Intended use of all lights and lamps in this catalog: For exclusive 12 V battery operation and use in recreational vehicles.

12V LED



Screw mounting

① L 130 mm
② L 330 mm

Gooseneck light
For screw mounting, with switch, 1 watt, LED bulb MR11. Color: silver matte.

① L 130 mm	83395	33,95
② L 330 mm	83396	34,95

CARBEST
INNOVATIONS FOR MOBILE LIFE



Gooseneck lights
With 2 LEDs and ON/OFF switch. 12 V, 1.9 W, 192 lumens, beam angle 120°. Ideal for mounting on overhead cabinet or side rail. Length: 465 mm. Color black/silver. Not dimmable.

833953	27,90
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CARBEST
INNOVATIONS FOR MOBILE LIFE



LED spot with flexible arm
• Noble design in black matt
• Flexible arm
• ON/OFF switch

LED spot with flexible arm and integrated glass shade. Not dimmable. Ideal for seating area or bedroom. Material: aluminum / plastic, total length: 150 mm / flex arm length: 90 mm, ON / OFF switch, 3000 K, 1.8 W, 80 lumens, 6 x SMD LEDs.

830346	26,90
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CARBEST
INNOVATIONS FOR MOBILE LIFE

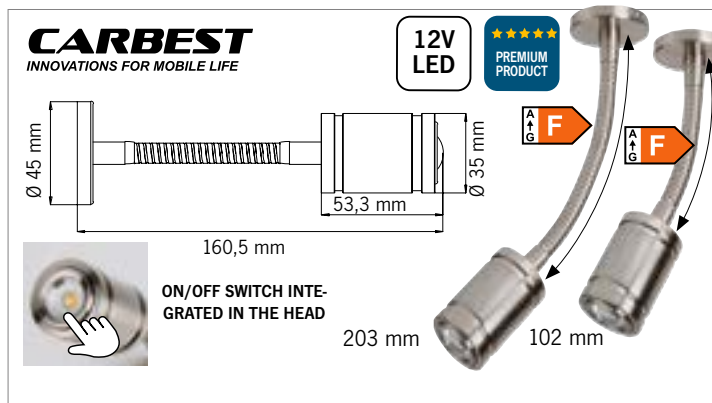


LED spot with flexible arm and USB charging socket
• Noble design in white matt
• Flexible arm
• ON/OFF switch
• USB port in the base (1x2A)

LED spot with flexible arm and integrated glass shade. Not dimmable. Ideal for seating area or bedroom. Material: aluminum / plastic, total length: 150 mm / flex arm length: 90 mm, USB port in base (1x 2 A). ON/OFF switch, 1.8 W, 80 lumens, 3000 K, 6 x SMD LEDs.

830345	29,99
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CARBEST
INNOVATIONS FOR MOBILE LIFE



Brushed nickel reading lamp in two lengths
12V, 1x COB-LED, 1.2 W, 100 lm, beam angle 120°, warm white (3,000 K), dimmable if additional dimmer is available. With switch. Ø 35 mm, total height 160.5 mm
Total height 300.5 mm

830343	35,90
830344	39,90

NEW 2023




LED reading light
• With ON/OFF switch

With flexible arm (ca. 100 mm). Ideal for seating area or bedroom. Steel chrome plated. Luminous color: Normal white. 4000 K, 10-14.4 V DC, 0.5 watt.

83604	33,--
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12V LED



LED Gooseneck Light
• USB socket in the base
• On/Off switch

Beautifully designed with on/off switch as well as USB port (5V, 2.1A) in base. Flexible arm with black silicone sheath. 12V / 2W / 3000K. Size base: Ø 80 mm / height: 25 mm. Length flexible arm: ca. 285 mm.

83613	41,30
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12V LED



Light with night light
• 2.1A USB socket in the base
• With blue night light

With flexible arm (ca. 140 mm). Ideal for seating area or bedroom with switch. Steel chrome plated. Normal white / night light blue, 10-14.4 V DC, 1 watt. Height: 230 mm, Ø 60 mm. 2-way switch.

832771	27,60
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12V LED




Light with night light
• 2.1A USB socket in the base
• With blue night light

With movable light and on/off switch. Ideal for seating area or bedroom. Steel chrome plated. Normal white / blue night light, 10-14.4 V DC, 1 watt. Height: 120 mm, Ø 60 mm. 2-way switch.

832781	28,95
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12V LED



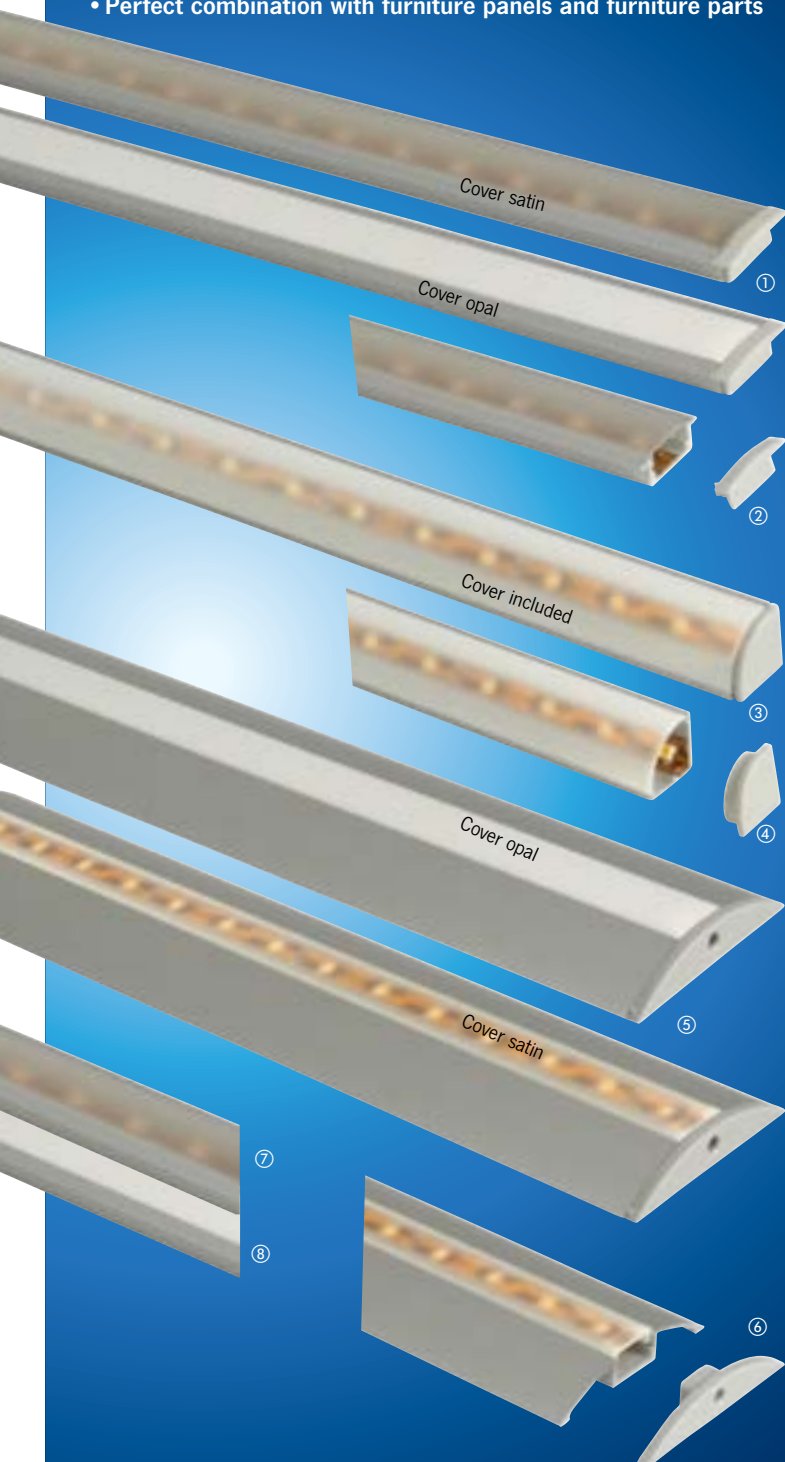
LED reading light
With flexible arm (ca. 100 mm) and on/off switch. Ideal for seating area or bedroom. Steel chrome plated. Luminaire Ø 25 mm, base Ø 50 mm. Luminous color: Normal white. 5000 K, 10-14.4 V, 0.8 watts.

83402	31,50
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Stylish Carbest aluminum profiles for LED flex ribbons



- Individual luminaire construction for atmospheric lighting
- Profile length: 1.5 m, suitable for LED flex ribbons with a maximum width of 10 mm
- Suitable for the Carbest LED flex ribbons
- Perfect combination with furniture panels and furniture parts



Application example

Aluminum profiles are a professional solution for the installation of Laying LED strips. With the profiles and LED strips on the right, you can easily create your own lighting.

The profiles can also be ideally used in furniture construction, for example, to conceal the overhang of different wooden panels or to provide stylish lighting. This creates effective lighting accents that can be perfectly integrated into the furniture. This specifically illuminates corners and areas under cabinets and shelves. For light diffusion, you can choose between the semi-transparent satin cover or the opal version that appears white.

Each set comes with 2 end caps, which you can expand with additional end caps. Suitable for LED tapes with a Bandwidth of max. 10 mm suitable.

All aluminum profiles are supplied WITHOUT LED flex bands.

- ① **Set aluminum profile flat** including 2 end caps. To build up or let in a groove. Length: 1.5 m

82999 9,98

- ② **End caps** (2 pieces) for 82999 **82980 1,99**

- ③ **Set angle aluminum profile** including Cover and 2 end caps. For mounting in corners and under cabinets. Length: 1.5 m.

829991 15,99

- ④ **End caps** (2 pieces) for 829991 **82981 1,99**

Mounting clips (2 pcs.) for 829991 (not shown)

829810 1,99

- ⑤ **Set aluminum profile semicircular** including 2 end caps. For screwing on and covering at transitions of e.g. furniture panels. Length: 1.5 m.

829992 15,99

- ⑥ **End caps** (2 pieces) for 829992 **82982 1,99**

- ⑦ **Cover** Length: 1.5 m, for 82999 / 829992 satin (semi-transparent).

82983 6,99

- ⑧ **Cover** Length: 1.5 m, for 82999 / 829992 opal (white).

82984 6,99

CARBEST
 INNOVATIONS FOR MOBILE LIFE

Profi LED flex bands with warm white light

12 V LED flex ribbon Topview for indoor & outdoor use

 30 LEDs/m, 2.4 W/m, 190 lumens/m, 3,000 K warm white, IP66, 5 m roll, strip width: 7 mm. **83174 24,90**
12 V LED flex tape Topview for indoor & outdoor use

 60LEDs/m, 4.8 W/m, 320 lumens/m, 3,000 K warm white, IP67, 5 m roll, tape width: 7 mm. **83171 44,90**
12 V LED flex ribbon Topview for indoor & outdoor use

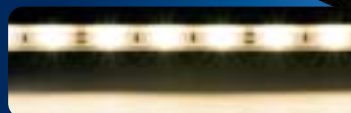
 120 LEDs/m, 7.2 W/m, 480 lumens/m, 3,000 K warm white, IP67, ideal as awning lighting, incl. 1 m connection cable (waterproof), 5 m roll, strip width: 10 mm. **83170 69,90**
12 V LED flexible tape Topview for indoor use

 60 LEDs/m, 4.8 W/m, 290 lumens/m, 3,000 K warm white, IP20, 5 m roll, strip width: 5 mm. **83172 34,90**

- Atmospheric lighting indoors / outdoors
- All LED flex ribbons are dimmable
- Self-adhesive back (3M)
- Can be shortened after every 3rd LED



Fig. shows Flexband Topview


CARBEST
 INNOVATIONS FOR MOBILE LIFE

LED flex ribbons with RGBW or blue light

- All LED flex ribbons are dimmable
- Self-adhesive, can be shortened after every 3rd or 6th LED

12 V LED flex ribbon RGB and warm white in one

 72 LEDs/m, can be shortened after every 6th LED, 10.8 W/m (all LEDs), 2.2 W/m (warm white LEDs). Warm white: 250 Lm/m, Red: 72 Lm/m, Yellow: 138 Lm/m, Blue: 35 Lm/m. 3,000 K warm white, 5 m roll, strip width: 10 mm. **83175 74,90**
LED flex Ribbon blue for indoor & outdoor

 60 LEDs/m, dimmable, 5 W/m, 16 lumens/m, IP65, 5 m roll (not shown) **831020 49,95**
① RGBW control unit with remote control

 Especially for RGBW LED flex ribbon 83175. For controlling lighting effects and light color. **83179 22,90**
② RGB control unit with remote control

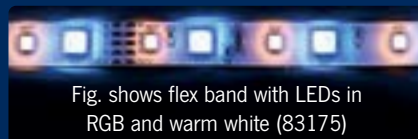
 For controlling light effects and light color. **831009 11,95**


Fig. shows flex band with LEDs in RGB and warm white (83175)



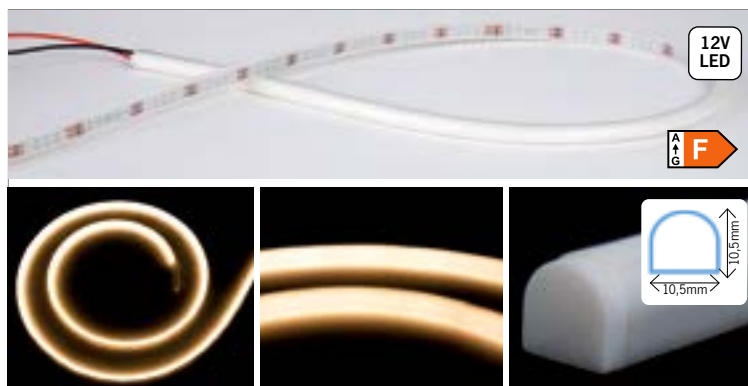
RGBW control unit & Remote control (83179)



RGB control unit & Remote control (831009)


CARBEST
 INNOVATIONS FOR MOBILE LIFE

12 V dimmer with remote control

 For single color LED strips or dimmable luminaires. Functions: Lighter/Darker, On/Off. Ideal for retrofitting awning lighting, as it eliminates the need to install an additional switch. Max up to 96 watts, quiescent current ca. 30 mA. Size: L 90 x W 60 x H 37 mm. **831003 19,90**

CARBEST
 INNOVATIONS FOR MOBILE LIFE

Flexible LED light tube for indoor & outdoor use

 150 LEDs, 10.8 W, 620 lumen, 3,000 K warm white, IP67, dimmable, 5 m roll with self-adhesive backing (3M), strip width: 10 mm **83178 89,90**
End cap set for LED light scarf 83178, consisting of 2 pieces.
831781 2,50

OUTDOOR LIGHTS / AWNING LIGHTS

12V LED



CARBEST
INNOVATIONS FOR MOBILE LIFE

Awning light

- With motion detector
- Waterproof (IP66)

36 LEDs, 6 W, 576 lumens. Warm white 3200 K. Beam angle 120°
Plastic housing silver, polycarbonate glass, Size: LxHxD 325 x 100 x 35 mm Not dimmable.

830170 69,95

12V LED



Awning light

Plastic with polycarbonate glass, waterproof. 10 x 0.5 W. SMD LED.
Size: L 365 x H 50 x D 40 mm.

Fiat white 249 **83467 46,90**
silver satin **83468 47,90**

FIAMMA
home is everywhere



LED rafter tension rod

- For awnings up to 250 cm extension (adjustable from 142-265 cm)
- Tension rod with built-in 12 V LED lamp
- Comfortable light with 36 LED light points, only 3.6 watts.

Rafter LED for F45 and F65 43359 110,-
Rafter LED CS for F35 Pro and Caravanstore 433592 103,-

12V LED



Awning light

- With integrated rain gutter!

8 watt, 4,200 K, SMD LED, Size: L 650 mm. Integrated rain gutter, for use above the body door.

White **83279 49,95**
Silver **83280 61,50**

12V LED




Caravan outdoor light

- With motion detector
- With 12 LEDs

Motion reception range 180° Size: L 665 x H 70 x D 50 mm. 1,2 W.

83070 137,50



LED flex ribbon

Suitable for outdoor use. Can be shortened every 5 cm. Flexible, with self-adhesive 3M tape. 1 m connection cable. Waterproof IP66, 60 power LEDs/m with 340 to 380 mA/m. 12 Volt.

4 m length **433001 97,-**
5 m length **43300 127,-**
6 m length **433002 147,-**

12V 24V



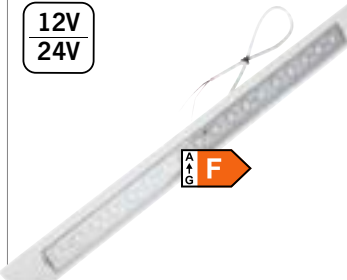
CARBEST
INNOVATIONS FOR MOBILE LIFE

LED awning light for van

12/24V, color: black, length: 231 mm, IP67, 3000K, 2W, 9 SMD LEDs, 222 lumens, ABS housing. Not dimmable.

833771 21,90

12V 24V



CARBEST
INNOVATIONS FOR MOBILE LIFE

LED awning light for mobile home

12/24V, color: white, length: 480 mm, IP67, 3000K, 4W, 18 SMD LEDs, 388 lumens, ABS housing. Not dimmable.

83377 27,90

NEW 2023



Rain gutter with integrated COB lighting

12V, 7 W, 450 lumen, light color warm white 4000K, beam angle 130°. Material: aluminum, black. The luminaire provides a pleasant light in front of the vehicle and at the same time drains the rainwater. It is mounted under the upper column of the sliding door. Size: LxWxH 1500x34x12 mm. Weight: 440g.

For Fiat Ducato 244-250-290, Peugeot Boxer, Citroen Jumper from Bj. 2006 (left-hand drive version) 834511 117,-
For Mercedes Sprinter, VW Crafter, MAN 834512 117,-

NEW 2023



jakon

LED awning light 12 V

In use on Adria motorhomes.
Fiat white 249 **82987 47,40**

12V 24V



LED Awning Light

12/24 Volt DC, 2,5 Watt, 2 A, light color: warm white, 5 m cable and safety universal plug

81191 125,-

CARBEST
INNOVATIONS FOR MOBILE LIFE



LED clip awning light

In aluminum housing incl. retaining clips and 12 V cable (3 m), 2.4 watts with universal plug, 18 SMD LEDs, length: 500 mm, Ø 16 mm.

83236 18,95

Intended use of all lights and lamps in this catalog: For exclusive 12 V battery operation and use in recreational vehicles.



High quality LED retro light

- Noble design due to the materials bamboo, metal and plastic
- With ring and handle for carrying and hanging
- Dimmable & can be used as a powerbank

USB charging cable included. Lithium battery 3.7 V, 5000 mAh.

Power: 3.2 W, 220 lumens

Charging time: 7 h Weight: 0.75 kg

Size: Ø 13 cm height 25/32 cm

834873 54,90



54,90



Rechargeable table lamp with touch operation

- Touch sensor on the lampshade
- 3 brightness levels adjustable
- Warm white cozy light for your tent, awning, garden...
- Suitable for outdoor use (protection class IP44)

Lampshade white, anthracite steel base. Rechargeable 2000mAh Li-ion battery. 3.7 V, 3000K. Incl. USB charging cable. Total height 30 cm, base H 15 x Ø 16.5 cm. Base can be unscrewed for small pack size, weight: ca. 0.7 kg

831951

29,90



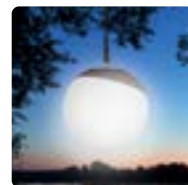
LED light chain incl. solar panel + battery

- Atmospheric lighting
- 4 m cable
- Light duration ca. 8 hours

Colorful string of lights with 10 LED lanterns. A solar panel and battery are included and provide atmospheric lighting in the evening. Due to the extra-long cable with 4m length, the light chain is perfect for your awning or tent and provides a cozy ambience on your camping vacation. With on/off switch. In ON mode, the light chain will turn on automatically at dusk/dark. Incl. Solar panel with ground spike (2V, 40mA) and rechargeable battery (1x1.2V AA 600mAh). Luminous duration ca. 8 hours.

83183

9,50



Rechargeable LED Tent Light

- Ideal for motorhome and caravan awning
- 5 levels switching: 1: 100% light output, 2: 50% light output, 3: Automatic RGB color change, 4: RGB continuous light selection, 5: OFF
- Incl. Hook and suspension rope and ground spike

Lampshade white, anthracite lamp base. Rechargeable 2200mAh Li-ion battery. 2.5W, 16 LEDs. Incl. USB charging cable. Size: Ø 20cm, weight: ca. 0.6 kg

83195

39,90

Foldable silicone lamp

- With remote control Dimmable

Shapely and space-saving lamp for the awning. Can be folded, thus small pack size. With 5 meter cable, color white-gray, light color warm white (3000 K). Size: Ø 15 x 10 cm, 16 LEDs, 360 lumens.

811900

29,95

230V



Light To Go lamp

100% recyclable

- MADE IN GERMANY
- 100% CO2 neutral product
- 100% recyclable
- Bamboo, BPA melamine free

Mobile light for indoors and outdoors, up to 14 hrs. battery life, dimmable in 4 levels, integrated powerbank, incl. USB cable, material: thermoplastic. Size: Ø18cm height 28cm, color: white/grey

917615

65,95



Outdoor and camping light

- Flashlight with emergency light and mosquito repellent light function
- Magnet attachment
- With powerbank 2.500/4.000 mAh
- USB cable and loop included

X5 Mini - 1,5 Watt power

Size: L 150 x W 35 x D 35 mm. Max. 150 lumens. Weight: 150 g

910470

39,90

X5 - 2.0 watt power

Size: L 242 x W 35 x D 35 mm. Max. 200 lumens. Weight: 250 g

910469

49,90

Powerful COB LED lights from Carbest



①



① Solar/230V/12V Camping Light

Rechargeable LED camping light with integrated solar panel on the lid. Charging via solar, 230 V or 12 V adapter. With USB port 5 V / 1 A for charging cell phone & Co, 500 lumens, 6,000 - 7,000 K, 9 W, 2x 2200 mAh battery for very long burn time. 3 light settings: bright, very bright (ca. 4 h) and flashing mode (ca. 8 h). With silicone protective cap over the connections. Size: D: 82 x W: 82 x H:185 mm.

834871 44,99

② COB multi-function pen light

Battery operated (3 x AAA). Temple clip, ultra bright LED, with loop

83528 7,99

③ COB pocket and workshop light

Very bright COB light for a wide range of applications. Very strong magnets on the back. Can be adhered to metal surfaces. Bracket 360° rotatable. With snap hook. 150 lumens. 3 x AAA battery (not included).

83488 7,90

②



③



COB clamp light

3 W COB + 1 SMD LED, 120 lumens + 30, lumens, 3 x AAA batteries (not included), 2 strong magnets on the back, clamp function, with joint for optimal adjustment possibilities

83490
9,90


CARBEST
INNOVATIONS FOR MOBILE LIFE

Handy outdoor lights

- All lights with integrated rechargeable battery
- Rechargeable via USB
- All lights for standing or hanging in tents
- Cold white light

① Large light with mosquito protection

2000 mAh rechargeable battery, 3.2W 16 SMD LEDs, integrated mosquito protection light and power bank function. 4-stage switching: 100% light output / 50% light output / signal flashing / off. Ø 98 x height: 135/190 mm

930614 24,95

② Foldable light with mosquito protection

1000 mAh battery, 2W 4 SMD LEDs, integrated mosquito protection light. Compact foldable, 4-stage switching: 20% light output / 50% light output / 100% light output / Off.

Ø 94 x 52 mm **930615 16,95**

③ Rechargeable camping light with mosquito protection

2000 mAh battery, 1W, integrated mosquito repellent-Luminaire. With charge indicator. 4-stage circuit: 20% light output / 50% light output / 100% light output / Off. Size: Ø 88 x 129 mm.

83494 24,95

④ Small ball light

1000 mAh battery, 1.5W 3 SMD LEDs, lighting time max 14 hours. 4-stage circuit: 100% light output / 50% light output / 20% light output / Off. IPX7, Ø 80 x 102 mm

930613 11,95



CARBEST
INNOVATIONS FOR MOBILE LIFE

LED table lamp with Bluetooth speaker



- LED light with atmospheric realistic flame effect
- Rechargeable via micro USB

LED table lamp with integrated Bluetooth speaker. Uncomplicated pairing with the smartphone. Transmission range >10m. Volume >90dB. Power supply: 5V 1A. Output power: 5W. 2000mAh Li-polymer battery. Material: ABS. Size: Ø 98 x H165 mm

83184 27,95



CARBEST
INNOVATIONS FOR MOBILE LIFE

LED torch with flame effect



- LED light with atmospheric realistic flame effect
- Rechargeable via micro USB

Authentic flame effect with 96 LEDs. 2W, 100-200 lumens. Integrated 2200mAh battery. Rechargeable via solar panel in the lid or via micro USB cable. Size: Ø 95 mm, with 4 bar elements, max. height 830 mm


83588 24,95



HELLA VEHICLE LIGHTS




CARALUNA combination rear lamps




CARALUNA vertical, 12 V

left	47711	128,52
right	47712	105,-



CARALUNA modular, 12 V

left	47713	174,22
right	47714	175,64



CARALUNA modular chromium

left	47727	167,08
right	47728	167,08



CARALUNA II plus, 12 V

left	47715	122,95
right	47716	122,95



CARALUNA II plus chromium, 12 V

left	47717	139,09
right	47718	139,09



CARALUNA II, 12 V

left	SA1091	111,96
right	SA1099	107,96



Turn signal brake fog tail light
for pendant with triangle.
Size: 447x 170 x 85/105 mm

left	46825	102,53
right, without fog closure.	46826	109,81



Taillight
Size: 447 x 170 x 85/105 mm
Caraluna for motorhomes.

left	46837	98,53
right	46838	112,53




Turn signal-brake-fog-tail light
Can be used on the right and left. Size: 383 x 130 x 60 mm.

	46818	73,83
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Turn signal-brake-fog-tail light
With reversing light. Can be used on the right and left. Size: 383 x 130 x 60 mm

	46819	89,11
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Lamp Size:
Ø 55 x D: 87.5 mm



Bringing up the rear
with 5 watt bulb

	46871	28,92
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Brake light
with 21 watt bulb

	46872	28,92
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Rear fog light
with 21 watt bulb

	46874	30,06
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Reversing light
with 21 watt bulb

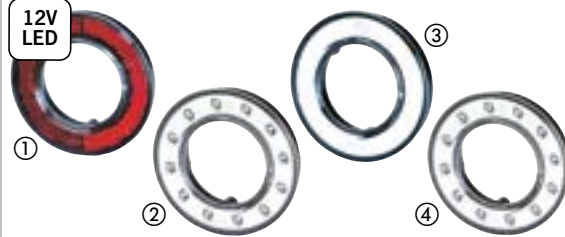
	46875	29,76
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Flashing light
Smoked glass 21 watt, incandescent yellow. 46873 28,60



Flashing light front
Ind. front, 21 watt, incandescent yellow. 46878 22,22



Circular reflector
Ø 98 mm outside, 55 mm inside

① Circular reflector, red	46876	24,30
② LED clearance light, red	46877	67,16
③ Circular screen chrome plated	46879	29,36
④ Parking light 12V/1,8W	47702	120,38

For lateral marking prescribed on the trailer



Reflector rectangular
2 pieces, Yellow. 94 x 44 mm

	468470	5,50
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Rear fog light
Size: 84 x 84 x 51 mm


	46845	21,95
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Turn signal-brake-fog-tail light
usable right and left.
Size: 121 x 121 x 56 mm.

	46827	19,95
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Taillights with depth effect - Ø 122.5 x D82.5 mm (without bulb)




Flashing light

	46880	39,37
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Tail stop light

	46881	35,70
--	-------	-------




Reversing light

	46882	35,70
--	-------	-------



Fog taillight

	46883	35,70
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12 V side auxiliary flashing light

Structure left, L140 x H51 x D47.5 mm	46885	18,79
Body on the right, L140 x H51 x D47.5 mm,	46886	18,79

Side marker lights 12 Volt

Structure	Structure	Installation
		
Size: L126 x H38 mm	Size: L110 x H40 x D25 mm	Size: L101.6 x H 85 x D40 mm
46835 13,18	46904 9,62	46903 12,20



Marker lights, side marker lights and rear lights

**LED
sur-face
mounted
clearance light**Red 12 V 0.5 W waterproof.
0.5 m cable.

Size: L60 x H38 x D30 mm.

46898 40,16**12 V LED
clearance light**

Size: 101.6 x 45 x 12.5 mm

46957 25,16**Clearance light**

With rubber arm for upright mounting. Height 185 mm. Black housing with position light red (rear) and white (front).

Size: 171.5 x 181 x 68 mm

46931 19,19**LED clearance light waterproof, 12V, 0.5W**

Body, L150 x H45 x D21 mm

46910 35,50

Mounting horizontal, L130 x H32 mm

46911 19,11

Mounting vertical, L130 x H32 mm

46912 19,64**Recessed position light**

White. L110 x H45 x D25 mm

46902 6,88

White, L101.6 x H45 x D40 mm

46901 12,31**Clearance light red/white - base gray**

Size: L122.2 x H39.2 x D28.6 mm

Base plate gray, left

46905 12,35

Base plate gray, right

46906 12,35**12V****Clearance light
red/white**

Size: L62 x H62 x D40 mm

46909 11,68**12V****Limit light**

Size: Ø 80 x 41 mm. Base gray

46841 10,38**Clearance light red/white - base white**

Size: L122.2 x H39.2 x D28.6 mm

Base plate White, left

46907 12,55

Base plate White, right

46908 12,55**License plate light**

Color: light gray. Size: 100 x 55 x 55mm.

46843 14,71**12V
LED****LED license
plate light**LED license plate light
82.7x32.6mm, 12V/1Watt.**47708 31,06****LED side marker light**

12 Volt, LED, Size: 101.6 x 45 x 12.5 mm

46956 21,23**12V
LED****LED auxiliary brake light**Screw fixing, L 280 x W 25.97 x H 9 mm,
12 V/0.7 W, 3 m supply line.**47710 92,39****12V
LED****Function recessed luminaires**

Size: 192 x 133 mm. Installation horizontal.

Bringing up the rear 46958 76,54**Brake light 46959 74,26****Taillight/brake light 46960 79,25****Flashing light white 46961 75,54****Rear fog light (ECE tested) 46962 79,25****Reversing light 46963 76,54****12V****Hella LED DayLine daytime running lights**

For FIAT Ducato 250 from Bj. 7/2006. Complete set incl. design panels. The black trim can be painted. Incl. Electrical cables and relays. 12 V max. 5.5 W per lamp

469791 542,64**12V
LED****Marker light 0.5 watt**

Size: 79 x 25.9 mm

47724 37,30

LED multifunction light 12 /24 Volt



LED multifunction I. 9-32V, red-clear, 225 x105 mm, cable 500mm.

47615 224,40



LED multifunction I. 9-32V, red-clear, central connection, 250x131mm

Right 47616 224,50



LED multifunction I. 9-32 V, red-clear, central connection, 250 x 131 mm

Links 47617 224,40



LED multifunction I. 9-32V, red-clear, central connection, 250 x 131 mm.

Right 47618 224,50



LED multifunction I. 9-32V, red-clear, central connection, 250 x 131 mm.

Links 47619 224,50

Additional brake light



Recessed light

To screw from the outside.
12 Volt Size: L 330 x H42 x D34/24 mm

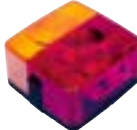
46856 72,20

Surface mounted light

With white housing.
12 Volt/4.5 Watts.
Size: L385 x H97 x D40 mm

white 46854 89,70

Indicator, brake and tail light, front



Right & left usable.
103 x 100 x 55 mm

46830 19,30



With license plate light and rear fog light.

285 x 96 x 56 mm

Links 46870 65,99



Right, 285 x 96 x 56 mm

46812 72,70

Side marker lights /position lights



Taillight

Recessed, equipped with glass base lamp W5W, 78 x 44 mm.

46992 15,40



12/4 V LED tail light

Recessed, Ø 30 mm, 9-33 V.
Lens red, cable 250 mm

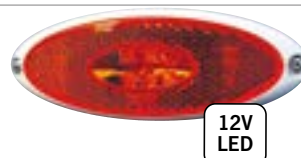
46996 22,70



LED tail light

Surface mount, 12 V/0.4W, red, 65 x 15 x 16 mm, cable 250 mm, hole spacing 45 mm

46994 18,40



LED side marker

Surface mounted, 12 V, 125 x 45 mm, white base, cable 220 mm

46980 14,30

Marker lights



Marker light, Recessed, with glass base lamp, W5W equipped, 78 x 44 mm.

46991 14,60



LED marker light

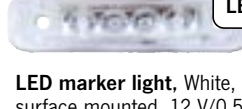
Rear, with reflector L 140 x W 25 x H 12 mm, hole spacing 100mm, cable length 250mm, 12 Volt.

46823 18,20



LED marker light, front L 140 x W 25 x H12 mm, hole spacing 100mm, cable length 250mm, 12 Volt.

46829 20,90



LED marker light, White, surface mounted, 12 V/0.5 W, 65 x 15 x 16 mm, cable 250 mm, hole spacing 45 mm.

46993 18,15



12/4 Volt LED marker light

Recessed, Ø 60 mm, 9-33 V lens white, cable 200 mm

46995 19,95

Side marker lights 12 Volt



With reflector, L74 x H45 x D25 mm

46839 13,40



Installation with reflector. L110 x H45 x D17.5 mm

46913 16,70



Structure, 12V, 100 x 44 x12 mm

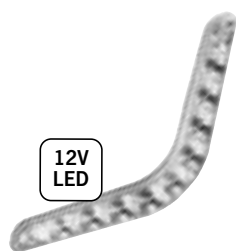
46965 14,50



12 V, (E2) 0062, ca. 40 g, ca. 110 x 44 mm

46951 18,20

LED flashing light



12V LED

275 x 275 mm, clear, 12 V, 1.47 W, cable 250 mm

right 47668 81,90

left 47667

Clearance lights red/white



With spacer base

L92 x W43 x H45 mm

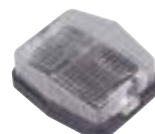
46833 9,60



With spacer base

L90 x H40 x D40 mm

46915 16,40



Base Black, 12 Volt. L 71 x H61 x D37 mm,

46840 18,50



Base gray, cover mirrored. 125 x 40 mm, with sealing ring, without soffit.

46989 14,95



12V LED

LED clearance light

Structure 12 Volt, 125 x45 mm, red/white, base black with 2 caps, cable 540 mm

46966 23,95

LED marker lights 12 Volt

				
Integrated reflector, 12V, 1 W, clear, 100 x 44 mm, cable 200 mm.	Front, 12 V, 1 W, clear, 100 x 44 mm, cable 200 mm.	Integr. Reflector, 12V/0.6W, clear, 110 x 45 mm, cable 100 mm.	Frame white, 12 V, 1 W, clear, 124 x 45 mm, cable 200 mm.	Frame transparent, 12 V, 1 W, clear, 124 x 45 mm, cable 500mm.
47600 16,50	47601 16,50	47602 18,75	47603 18,75	47605 18,75

LED marker lights 12 Volt

			
LED marker light, 9-33 V, 0.6 W, clear, Ø 30, cable 250 mm.	Integrated reflector, 12 V, 1 W, clear, Ø 60, cable 700 mm.	For Adria, Bürstner, Dethleffs, LMC and Laika. 12 V, 1 W, white, With reflector, 100 x 23.5 mm, Cable 800 mm.	In use at Adria, SEA, Kabe, Atlantis. Homogeneous light emission surface. Attachment with 3M self-adhesive film. 12 V, 1 W, white. 65 x 20 mm, cable 250 mm.
47612 19,50	47614 16,15	468931 13,40	46939 17,50

LED side marker lights 12 Volt

				
12 V/0.6 W, yellow, 110 x 45, cable 100 mm.	12 V, 0.6 W, yellow, 140 x 25 mm, cable 250 mm.	12 V, 1 W, yellow, 125 x 45 mm, cable 200 mm.	12 V, 1 W, yellow, 125 x 45 mm, cable 200 mm.	For Adria, Bürstner, Dethleffs, LMC and Laika. 12 V, 1 W, yellow, With reflector, 100 x 23,5 mm, Cable 500 mm.
46951 18,20	47611 15,10	469802 15,20	469801 14,50	468930 13,40

LED rear fog lights 12 Volt



		
4 W, red, Ø 155 mm, cable 500 mm	4 W, red, Ø 155mm, cable 500 mm	4 W, red, Ø 122 mm, cable 500 mm
47623 82,40	47624 79,99	47631 92,30

LED tail light 12 Volt


In use at Adria, SEA, Kabe, Atlantis. Homogeneous light emission surface. Attachment with 3M self-adhesive film. 12 V, 1 W, red. 65 x 20 mm, cable 250 mm.
46938 23,-

	
LED turn signal Cat. 2a. 12 V, 3 W, yellow, Ø 155 mm, cable 500 mm.	LED flashing light Cat. 2a. 3 W, yellow, Ø 122 mm, cable 500 mm.
47622 64,90	47630 93,90



LED auxiliary brake lights 12 Volt

	
12 LEDs, housing white. L 290 x H 26 x D 26 mm	In use at Adria, SEA. Homogeneous light emission surface. Attachment with 3M self-adhesive film. 12 V, 3 W, red. 310 x 20 mm, cable 200 mm.
46950 59,60	46936 65,75


LED reversing lights 12 Volt

		
3 W, clear, Ø 155mm, cable 500mm.	LED reversing light/reflector 3 W, clear-red, Ø 155mm, cable 500 mm.	3W, clear, Ø 122mm, cable 500mm.
47625 115,10	47626 120,70	47633 81,90


LED vehicle system lights 252 x 28 mm

a+b		① LED flashing light Cat. 2a, clear, 9-32V, 2.2 W, Cable 500 mm	47663 88,95	⑤ Stop light red, 9-32 V, 2.2 W, cable 500 mm	47660 77,65
③ - ⑦		② LED reversing light clear, 9-32 V, 4,5 W, cable 500 mm	47665 79,95	⑥ LED brake/tail light red, 9-32 V, 2 W, cable 500 mm 2.0 + 0, W	47661 79,95
⑧		③ LED rear fog light red, 9-32 V, 2,2 W, cable 500 mm	47664 79,95	⑦ LED auxiliary brake light red, 9-32 V, 1 W, cable 500 mm	47662 77,50
		④ LED tail light red, 9-32 V, 0,3 W, cable 500 mm	47659 76,35	⑧ LED Reflector / Reflector red	47666 22,90

LED turn signal brake tail lights

<div>12V</div>  <p>Ø 122 mm, clear 12 V, 3/4/0.5 W, cable 50 cm 47636 90,90</p>	<div>12V</div>  <p>clear, 12V, 3/4/0.5 Watt 95mm, cable 500mm 47642 86,30</p>	<div>12V</div>  <p>red/clear, 12 V 5Watt, Ø 95mm, cable 500mm 47649 86,30</p>
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12V



LED flashing tail light
Ø 122mm, clear, 12V, 3/0.5W,
cable 500 mm
47637 56,95

LED brake tail light


<div>12V</div>  <p>Ø 122mm clear, 12 V, 4 W, cable 500 mm 47655 49,90</p>	<div>12V</div>  <p>Ø 95mm red, 12 V, 3 W, cable 500 mm 47650 77,20</p>	<div>12V</div>  <p>Ø 95mm clear, 12 V, 4 W, cable 500 mm 47644 75,90</p>	<div>12V</div>  <p>Ø 122mm clear, 12 V, 4 W, cable 500 mm 47638 84,50</p>
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12V







LED flashing tail light
Ø 95mm
clear, 12 V, 3 W, cable 500 mm
47643 49,90




LED flashing light

<div>12V</div>  <p>Ø 95 mm, Cat. 1+2 clear, 12 V, 3 W, cable 500 mm 47645 75,80</p>	<div>12V</div>  <p>Ø 95 mm, Cat. 2a clear, 12 V, 3 W, cable 500 mm 47646 49,90</p>	<div>12V</div>  <p>Ø 122 mm clear, 12 V, 3 W, cable 500 mm 47639 84,50</p>	<div>12V</div>  <p>Ø 95mm, Cat. 2a clear, 12 V, 3 W, cable 500 mm 47651 77,20</p>	<div>12V</div>  <p>80 x 80 mm Cat. 2a clear, 12 V, 5 W, cable 500 mm 47656 49,90</p>
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LED rear fog light

<div>12V</div>  <p>Ø 122 mm clear, 12 V, 4W, cable 500mm K1+K2 47640 80,50</p>	<div>12V</div>  <p>Ø 95 mm clear, 12 V, 4 W, cable 500 mm 47647 75,80</p>	<div>12V</div>  <p>80 x 80 mm clear, 12 V, 3 W, cable 500 mm 47657 49,90</p>	<div>12V</div>  <p>Ø 95 mm clear, 12 V, 3 W, cable 500 mm 47652 77,20</p>
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LED reversing light

<div>12V</div>  <p>Ø 122 mm clear, 12 V, 3 W, cable 500 mm 47641 125,20</p>	<div>12V</div>  <p>Ø 95 mm clear, 12 V, 4 W, cable 500 mm 47653 112,20</p>	<div>12V</div>  <p>80 x 80 mm clear, 12 V, 3 W, cable 500 mm 47658 120,70</p>
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LED light systems, Ø 122 mm

<div>12V 24V</div>  <p>Tail-stop-indicator light 1/2/2 watt, 9-32V 47719 221,34</p>	<div>12V 24V</div>  <p>Reversing light, surface mounted 2 Watt, 9-32V 47722 208,49</p>	<div>12V 24V</div>  <p>Rear fog light, surface mounted 2 Watt, 9-32V 47723 225,62</p>
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Red LED auxiliary brake light

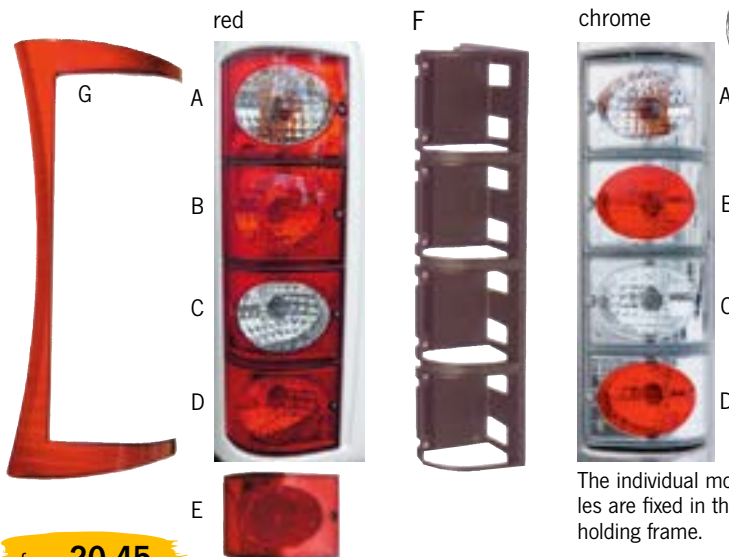
12 LEDs, clear glass optics, red lens, structure.
46999 55,80



LED surface mounted auxiliary stop light

With 28 LEDs, clear glass optics with clear or red lens. Ideal for retrofitting - no rear panel cutout required, 31 x 1.5 cm.

① Clear: **46998 56,50**
② Red: **46997 56,50**



The individual modules are fixed in the holding frame.

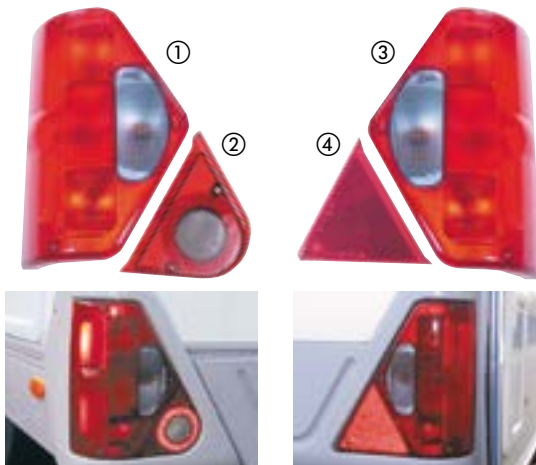
from **20,45**

Suitable for many Adria and other manufacturers

JOKON module glass taillight system- Combine up to 4 modules

A) Flashing light	red	46981	32,--
	chrome	469811	33,80
B) Taillight with brake light			
with side marking	red	46990	32,95
without side marking	red	46982	35,10
without side marking	chrome	469821	35,50
B) Taillight	chrome	470001	32,55
C) Reversing light	red	46983	32,15
	chrome	469831	35,50
D) Rear fog light	red	46984	31,90
	chrome	469841	35,50
E) Reflector/Reflector	red	46985	20,45
F) Holding frame 1 modules		47001	37,60
Holding frame 3 modules		46986	29,90
Holding frame 4 modules		46987	32,40
G) Decorative frame 4 modules		46988	66,10

Vehicle combination rear lights



① Reflectors with incandescent lamps.
Size: 180 x 300 mm.
left **46857** **133,--**

② Reversing light for 46857 u. 46860. Incl. Incandescent lamp. Size: 130 x 100 mm
46859 **41,10**

③ Reflectors with incandescent lamps. Size: 180 x 300 mm right **46860** **133,--**

④ Triangular reflector, red for 46857 u. 46860. Incl. Incandescent lamps. Size: 130 x 130 mm
46858 **24,30**

Rear fog/flasher/brake tail lights



Can be used on the right and left. Incl. Incandescent lamps. Size: 385 x 130 x 84 mm
46866 **95,70**

Can be used on the right and left. Incl. Bulbs Size: 385 x 130 x 84 mm
46867 **96,70**

Can be used on the right and left. Size: 385 x 130 x 60 mm
46821 **94,90**



Lamps in clear glass look incl. illuminant - mountable with and without decorative ring



Reversing light

Ø outside: 95 mm, Ø mounting hole: 79 mm, depth: 80mm, 12 V / 1x K21W, E1 1543, ca. 85 g

46955 **23,85**
Connection cable 30 cm with plug

46975 **9,50**



Flashing light

Ø outside: 95 mm, Ø mounting hole: 79 mm, depth: 80mm, 12 V / 1x K21W, E1 1547, ca. 85 g

46953 **23,90**
Connection cable 30 cm with plug left

46970 **9,50**
Connection cable 30 cm with plug, right

46971 **9,50**



Tail stop light

Ø outside: 95 mm, Ø mounting hole: 79 mm, depth: 80 mm, 12 V/1 x K21/5W, E1 1542, ca. 85 g

46952 **26,50**
Connection cable 30cm with Plug

left **46972** **9,50**
Connection cable 30 cm with plug,

right **46973** **9,50**



Rear fog light

Ø outside: 95 mm, Ø mounting hole: 79 mm, depth: 80 mm, 12 V/1x K21W, E1 1544, ca. 85 g

46954 **23,50**
Connection cable 30cm with plug.

46974 **9,50**



Decorative rings high gloss mirror

Ø Outside: 122 mm

Chrome-brilliant **46942** **9,90**
Red **46943** **9,90**
Yellow **46944** **9,90**



CARBEST Reflectors/Reflectors
INNOVATIONS FOR MOBILE LIFE



Triangle-reflector
2 pieces, Size: 156 x 136 mm
468460 3,95



Reflector
2 pieces, Clear. Size: ca. 95 x 38 mm
468612 2,95



Reflector
2 pieces, Red. Self-adhesive.
Size: 95 x 38 mm
468611 2,94



**Clearance light
red/white**
Size: L 92x H43 x D37 mm
46832 7,50

Reflectors/reflectors round



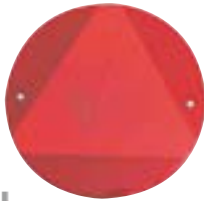
CARBEST
INNOVATIONS FOR MOBILE LIFE
Reflector
1 piece, red, self-adhesive, Ø 72 mm
46861 2,95



2,95
CARBEST
INNOVATIONS FOR MOBILE LIFE
Reflector
2 pieces, White, Ø 72 mm
468520 2,95



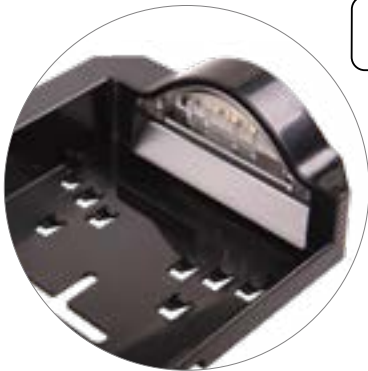
CARBEST
INNOVATIONS FOR MOBILE LIFE
Reflector
2 pieces, Red, Ø 72 mm
468530 2,95



jokon
Competence in Lighting
Reflector
round. Ø 155 mm
46893 11,30



License plate holder with LED lighting
Integrated LED lighting on both sides of the holder.
Size: 632 x 146 x 58 mm. For standard E license plate
(520 x 120 mm). **832794 100,40**



12V