



# PowerXtreme **solar** XS

## PowerXtreme Solar XS

Place one or more solar panels on the roof of your motorhome or caravan and you are less dependent on an external power source. This offers extra freedom on the road, especially for campers who like to camp off the beaten track. With the PowerXtreme XS20 MPPT controller you get maximum performance from your solar panel under all circumstances.

The performance of a solar module is constantly changing. This is due to the rotation of the earth, whereby the light intensity constantly changes. In addition, shadow and temperature of the solar cell play an important role in the power. MPPT stands for Maximum Power Point Tracking and is the most effective technology for charging via solar panels. Thanks to MPPT, the converter is not loaded to the maximum, but optimally loaded, which ultimately leads to a better end result. The advantage of a charge controller with MPPT can be up to 30 percent higher energy. Depending on the desired performance, a smaller and therefore lighter solar panel may be sufficient with an MPPT controller. The MPPT charge controller can be supplied separately or as a complete set with solar panels and mounting materials. PowerXtreme offers a choice of 4 different packages with monocrystalline solar panels for mounting on campers and caravans. You can choose from packages of 100W, 130W, 200W or 260W (the maximum watt output under ideal conditions).

PowerXtreme solar panels have a 10-year warranty against manufacturing defects. Moreover, PowerXtreme guarantees that every panel will have at least 90% after 12 years and will deliver at least 80% of the maximum power after 25 years. The cooling of the silicon is controlled in monocrystalline modules: the crystals are then all aligned. Mono solar cells have a darker color than polycrystalline fields, almost black. That is why many people prefer monocrystalline panels, although that does not matter for the roof of a caravan or camper. The yield difference is negligible in practice.

A Bluetooth module is also available, with which you can view the status of the charge controller and the battery on your smartphone via an app.





# PowerXtreme

**solar**XS

- Charge controller and solar panels available separately or as a set incl. mounting material, cables, bushing, spoilers and Sikaflex kit.
- 100W, 130W, 200W or 260W packages
- MPPT charge controller 20A
- Suitable for LiFePO4, lead-acid and AGM
- Optimal efficiency and load yield
- Bluetooth module available for X20
- Easy to operate
- Easy to assemble
- More freedom and independence on the road
- 5 years guarantee on XS20, 10 years on the panels
- TÜV solar panels approved

## Contents sun set

Article number	EM010096 <b>Power XS20 Solar MPPT 100W Set</b>	EM010107 <b>Power XS20 Solar MPPT 200W Set</b>	EM010109 <b>Power XS20 Solar MPPT 130W Set</b>	EM010110 <b>Power XS20 Solar MPPT 260W Set</b>
Max. power	100Wp	200Wp	130Wp	260Wp
XS100W	1	2		
XS130W			1	2
XS20	1	1	1	1
Including assembly of accessories	1	1	1	1

Package includes the following materials:

- Spoiler
- Performance
- Solar cable 4 mm<sup>2</sup> with MC4 plug
- Battery cable 4 mm<sup>2</sup>
- Mounting means
- Sikaflex 252



## Technical specifications

### XS20

Article number	EM010053
<b>Model</b>	<b>XS20</b>
Voltage	12V/24V Auto
No-load loss	0,7W-1.2W
Battery voltage	12V/24V
Max. sun input	100V (25°C), 90V (-25°C)
Max. power point range	Battery voltage +2V up to 75V
Normal charging current	20A
Nominal output current	20A
Max. photovoltaic system input	260W/12V - 520W/24V
Max conversion efficiency	98%
MPPT tracking efficiency	99%
Operating temperature	-35°C to +45 °C
<b>Weight</b>	<b>1,4 kg</b>
Communication	RS232
Dimensions	210 x 151 x 59,5 mm
Warranty	5 years
IP Class	IP 32

## Technical specifications

### panels

Article number	EM010100	EM010111
<b>Model</b>	<b>XS 100W</b>	<b>XS 130W</b>
Max. power	100Wp	130Wp
Optimal operating voltage	18.1V	18.1V
Optimal operating current	5.52A	7.18A
No-load voltage	22.1V	22.1V
Short-circuit current	5.86A	7.61A
Type of solar panel	Mono	Mono
Power tolerance	0~+3%	0~+3%
Dimensions	1200 x 540 x 30 mm	1480 x 540 x 30 mm
<b>Weight</b>	<b>8 kg</b>	<b>9.6 kg</b>
Cells	55	70
Temperature cycles range	-40 °C to 85 °C	-40 °C to 85 °C