

# SCM20 PWM



Product code: 131822000

This solar charge regulator based on PWM technology is a great solution to charge your batteries with solar energy. Suitable for both 36 cells panels (in 12 V systems) and 72 cells panels (in 24 V systems). Its protection against water spray, suitability for high ambient temperature and compatibility with negative grounding, make it the perfect solar regulator for marine and mobile environments. Optionally, a [temperature sensor](#) temperature sensor is available.

### **Safe, user friendly, and flexible**

The SCM20 PWM is suitable for all types of lead-acid batteries in both 12 V and 24 V. The device features a large display and switchable output with evening / night lighting function.

# Specifications

## Specifications battery charger

|                                  |                                 |
|----------------------------------|---------------------------------|
| System voltage (battery)         | 12/24 V auto select             |
| Nominal charge current           | 20 A                            |
| Battery types                    | AGM, Gel, flooded               |
| Battery temperature sensor       | optional, product code 41500500 |
| Switchable output (max. current) | 20 A                            |
| Energy consumption (night)       | < 7 mA                          |

## Specifications solar input (DC)

|                                    |          |
|------------------------------------|----------|
| Panel type (12 V system)           | 36 cells |
| Panel type (24 V system)           | 72 cells |
| Max. PV current (Impp)             | 20 A     |
| Recommended PV power (12 V system) | 360 Wp   |
| Recommended PV power (24 V system) | 720 Wp   |

## General specifications

|                   |  |
|-------------------|--|
| Cooling           | passive  |
| Display/read-out  | backlit LCD with PV power, load power, battery voltage, charge current, warnings, battery state of charge, battery setting |
| Grounding         | common negative grounding  |
| Protection degree | IP23   |
| Dimensions, hwxwd | 98 x 189 x 53 mm<br>3.9 x 7.4 x 2.1 inch   |
| Weight            | 0.5 kg<br>1.1 lb   |

## Technical specifications

|                                   |   |
|-----------------------------------|---|
| Technology                        | PWM (Pulse Width Modulation)  |
| Temperature range (ambient temp.) | -20 °C to 50 °C, derating power > 40 °C<br>-4 to 122 °F   |
| Cable size                        | max. 16 mm <sup>2</sup>   |
| Protections                       | over temperature, over load, high/low battery voltage, high/low PV voltage, short circuit, reverse polarity & HV transients |
| Relative humidity                 | 95 % non-condensing   |