

Steca Solarix PRS

1010, 1515, 2020, 3030

The simplicity and high performance of the Steca Solarix PRS solar charge controller make it particularly appealing. At the same time, it offers a modern design and a convenient display, all at an extremely attractive price.

Several LEDs in various colours give information on the battery's state of charge. Here, Steca's latest algorithms are employed, resulting in optimal battery maintenance. The Solarix PRS charge controllers are equipped with an electronic fuse, thus making optimal protection possible. They operate on the serial principle, and separate the solar module from the battery in order to protect it against overcharging.

For larger projects, the charge controllers can also be equipped with special functions: e.g. with night light function and selectable charging plateau and deep-discharge protection voltages.

Product features

- Serial topology with MOSFETs
- Automatic detection of voltage
- Voltage regulation
- PWM control
- Multistage charging technology
- Current compensated load disconnection
- Automatic load reconnection
- Temperature compensation
- Negative earthing of one or positive earthing of several terminals possible
- Monthly equalisation charge

Electronic protection functions

- Overcharge protection
- Deep discharge protection
- Reverse polarity protection of module (≤ 36 V), load and battery
- Automatic electronic fuse
- Short circuit protection of load and module
- Overvoltage protection at module input
- Open circuit protection without battery
- Reverse current protection at night
- Overtemperature and overload protection
- Load disconnection on battery overvoltage

Displays

- Multifunction LED display
- Multi-coloured LED
- 5 LEDs show operating states
 - ~ for operation, state of charge, fault messages

Options

- Evening or night light function pre-set in the factory or adjustable via Steca PA RC 100
- Parameterisation of function values via Steca PA RC 100

Certificates

- Compliant with European Standards (CE)
- RoHS compliant
- Made in EU
- Developed in Germany
- Manufactured according to ISO 9001 and ISO 14001

Steca accessories

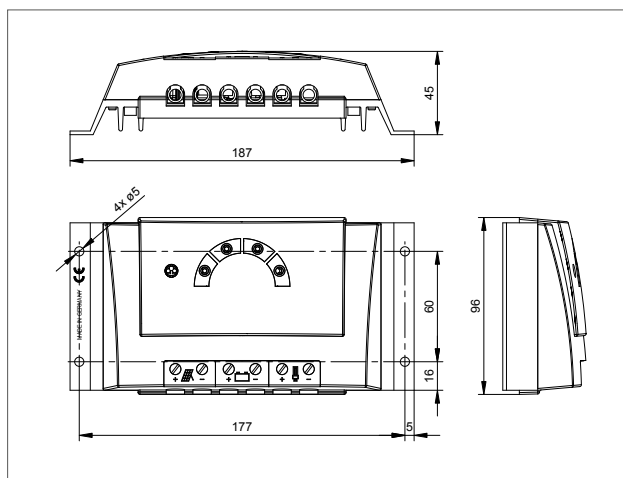
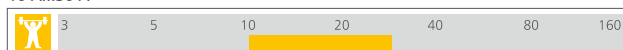
- Remote control Steca PA RC100

BASIC



Quality
made in EU

10 A...30 A



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Characterisation of the operating performance				
System voltage	12 V (24 V)			
Own consumption	< 4 mA			
DC input side				
Open circuit voltage solar module (at minimum operating temperature)	< 47 V			
Module current	10 A	15 A	20 A	30 A
DC output side				
Load current**	10 A	15 A	20 A	30 A
Reconnection voltage (LVR)*	12.4 V ... 12.7 V (24.8 V ... 25.4 V)			
Deep discharge protection (LVD)*	11.2 V ... 11.6 V (22.4 V ... 23.2 V)			
Battery side				
Battery voltage	9 V ... 17 V (17.1 V ... 34 V)			
End of charge voltage*	13.9 V (27.8 V)			
Boost charge voltage*	14.4 V (28.8 V)			
Equalisation charge*	14.7 V (29.4 V)			
Set battery type*	liquid			
Operating conditions				
Ambient temperature	-25 °C ... +50 °C			
Fitting and construction				
Terminal (fine / single wire)	16 mm² / 25 mm² - AWG 6 / 4			
Degree of protection	IP 31			
Dimensions (X x Y x Z)	187 x 96 x 45 mm			
Weight	345 g			

* adjustable via Steca PA RC100

Technical data at 25 °C / 77 °F

** Inverters must not be connected to the load output.