PRS

PRS 1010, PRS 1515, PRS 2020, PRS 3030

Regulador Solar Steca PRS

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 emulate a tank display, which gives 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

- Series controller
- Automatic detection of voltage
- Voltage and current regulation
- PWM control
- Multistage charging technology
- Current compensated load disconnection
- Automatic load reconnection
- Temperature compensation
- Common positive or negative grounding on one terminal
- Integrated self test
- Monthly maintenance charge

Electronic protection functions

- Overcharge protection
- Deep discharge protection
- Reverse polarity protection of module, 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
- Battery overvoltage shutdown

Displays

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

Options

- 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 Germany
- Developed in Germany
- Manufactured according to ISO 9001 and ISO 14001

SPECIFICATIONS

	PRS1010	PRS1515	PRS2020	PRS3030
Performance				
System voltage	12/24 V			
Own consumption	< 4 mA			
DC input side				
Maximum open circuit voltage	< 47 Vcc			
Module current	10 Amp	15 Amp	20 Amp	30 Amp
DC output side				
Load current	10 Amp	15 Amp	20 Amp	30 Amp
End of charge voltage	13,9 / 27,8 Vcc			
Boost charge voltage	14,4 / 28,8 Vcc			
Equalisation charge	14,7 / 28,8 Vcc			
Reconnection voltage (LVR)	12,4 - 12,7 Vcc / 24,8 - 25,4 Vcc			
Deep discharge protection (LVD)	11,2 - 11,6 Vcc / 22,4 - 23,2 Vcc			
Operating conditions				
Ambient temperature	-25 ºC a + 50 ºC			
Fitting and construction				
Terminal (fine/single wire)	16 mm^2 / 25 mm^2			
Degree of protection	IP 32			
Dimensions	187 x 96 x 45 mm			
Weight	345 gr.			

Technical data at 25 ºC

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