PR

PR 1010, PR 1515, PR 2020, PR 3030

Regulador Solar Steca PR

The Steca PR 10-30 series of charge controllers is the highlight in the range.

The latest charging technologies, combined with a Steca-AtonIC state of charge determination which has been significantly improved once again, result in optimal battery maintenance and control of the module output of up to 900 Wp which can be connected to it. A large display informs the user about all operating modes with the aid of symbols. The state of charge is represented visually in the form of a tank display. Data such as voltage, current and state of charge can also be displayed digitally as figures on the display. In addition, the controller has an energy meter which can be reset by the user.

Product features

- Hybrid controller
- State of charge determination with Steca AtonIC (SOC)
- Automatic detection of voltage
- PWM control
- Multistage charging technology
- Load disconnection depending on SOC
- Automatic load reconnection
- Temperature compensation
- Common positive or negative grounding on one terminal
- Integrated data logger
- Night light and morning light function
- 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

- Graphical LCD display
  - for operating parameters, fault messages, self test

Operation

- Simple menu-driven operation
- Programming by buttons
- Manual load switch

Options

- Prepayment interface
- External temperature sensor
- Alarm contact

Certificates

- Approved by the World Bank for Nepal
- Compliant with European Standards (CE)
- RoHS compliant
- Made in Germany
- Developed in Germany
- Manufactured according to ISO 9001 and ISO 14001

SPECIFICATIONS

	PR1010	PR1515	PR2020	PR3030
Performance				
System voltage	12/24 V			
Own consumption	12,5 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	Liquid 13,9 / 27,8 Vcc - Gel 14,1 / 29,2 Vcc			
Boost charge voltage	14,4 / 28,8 Vcc			
Equalisation charge	14,7 / 28,8 Vcc			
Reconnection voltage (SOC / LVR)	> 50% / 12,4 - 12,7 Vcc / 22,4 - 25,4 Vcc			
Deep discharge protection (SOC / LVD)	< 30% / 11,2 - 11,6 Vcc / 22,4 - 23,2 Vcc			
Operating conditions				
Ambient temperature	-10 °C a + 50 °C			
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	350 gr.			

Technical data at 25 °C

DOWNLOADS