Steca PR

The Steca PR 10-30 charge controller series stands out among solar charge controllers. The latest charging technologies combined with a state of charge determination result in optimal battery care and control. A large display uses symbols to inform users about all of the operating states. The state of charge is displayed visually as a level meter. Data such as voltage, current and state of charge can also be shown digitally as a number on the display. The controller also has an energy counter that users can reset themselves.



Product features
- Shunt topology with MOSFETs
- 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
- Negative earthing of one or positive earthing of several terminals possible
- Integrated data logger (energy meter)
- Evening, night light and daylight functions
- Integrated self test
- Monthly equalisation 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
- Load disconnection on battery overvoltage

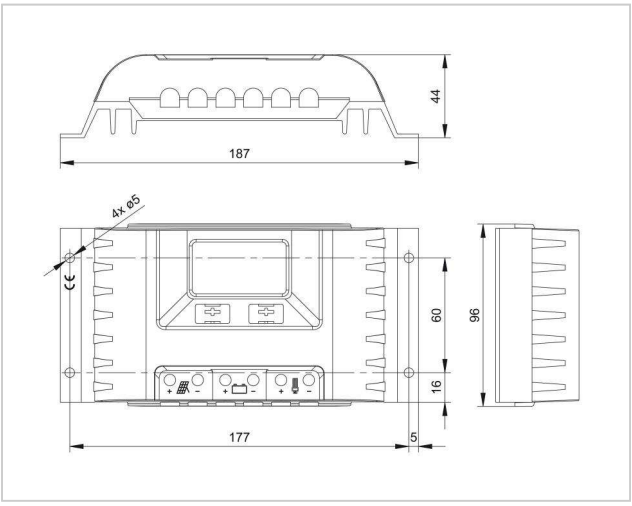
Displays
- Graphical LC display
- for operating parameters, fault messages, self test

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

Options
- Alarm contact

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

Accessories
- External temperature sensor Steca PA TS10



	PR 1010	PR 1515	PR 2020	PR 3030
Characterisation of the operating performance				
System voltage	12 V (24 V)			
Own consumption	12.5 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 (SOC / LVR)	> 50 % / 12.6 V (25.2 V)			
Deep discharge protection < 30 % (SOC / LVD)	< 30 % / 11.1 V (22.2 V)			
Battery side				
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 (adjustable via menu)			
Operating conditions				
Ambient temperature	-10 °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 44 mm			
Weight	350 g			

- Technical data at 25 °C / 77 °F
- Inverters must not be connected to the load output.