Steca
A KATEK Brand

Steca PR

1010, 1515, 2020, 3030

The Steca PR 10-30 series of charge controllers is the highlight in the range. Use of the latest charging technologies combined with state of charge determination enable optimal battery maintenance and module power monitoring. 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 level meter. 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.

CLASSIC

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

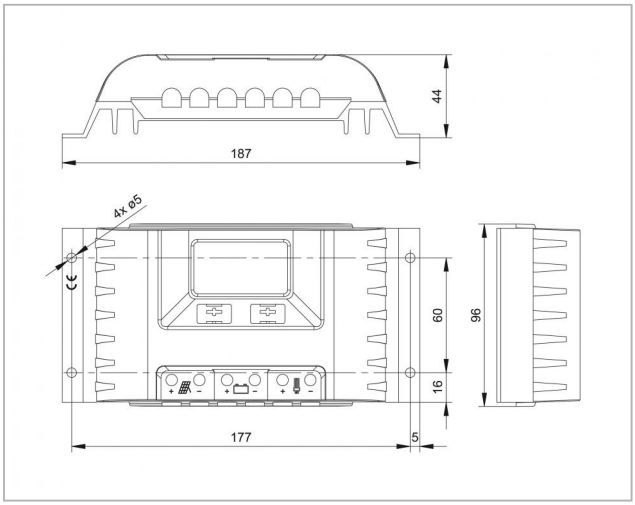
Displays
- Graphical LC display
- for operating parameters, fault messages, self test

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.

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