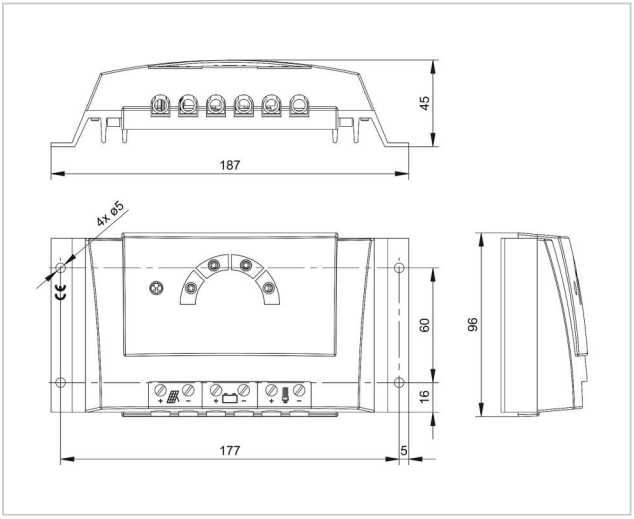
Steca Solarix PRS

The Steca Solarix PRS solar charge controller offers impressive simplicity and performance while also boasting a modern design with a convenient display at an extremely attractive price.

Multiple LEDs in different colours provide information about the battery's state of charge at a glance. Modern Steca algorithms are used to ensure optimal battery maintenance. The Steca Solarix PRS charge controllers are equipped with an electronic fuse, offering ideal protection. They operate according to the serial principle and separate the solar module from the battery to protect against overcharging.

For larger projects, charge controllers can also be equipped with special functions, e.g. a night light function and selectable charge termination 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
- Manufactured according to ISO 9001 and ISO 14001

Accessories
- Steca PA RC100

	PRS 1010	PRS 1515	PRS 2020	PRS 3030
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			

- Technical data at 25 °C / 77 °F
- adjustable via Steca PA RC100: reconnection voltage, deep discharge protection, end of charge voltage, boost charge voltage, equalisation charge, battery type
- Inverters must not be connected to the load output.

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