

Steca PR 2020 IP

IP 65 Version

The functionality of the Steca PR 2020 IP is based on the Steca PR line of solar charge controllers. This is equipped with a large display which shows the current state of charge (SOC) as a percentage and visually as a level meter. State of charge recognition forms the core of the charge controller. The auto-adaptive state of charge algorithm results in optimal battery maintenance and control. The Steca PR 2020 IP has been specially designed for operation in difficult environments with high salt, moisture and dust content.

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

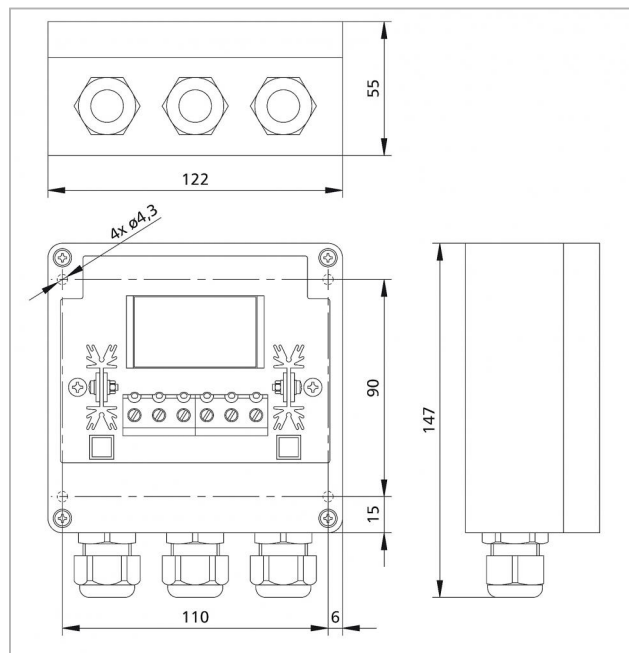
- Alarm contact (special version, needs to be mentioned on the purchase order)

Certificates

- Fit for use in tropical areas (DIN IEC 68 part 2-30)
- Compliant with European Standards (CE)
- RoHS compliant
- Made in Germany
- Manufactured according to ISO 9001 and ISO 14001

Accessories

- External temperature sensor Steca PA TS20IP10



	2020 IP
Characterisation of the operating performance	
System voltage	12 V (24 V)
Own consumption	12 mA
DC input side	
Open circuit voltage solar module (at minimum operating temperature)	< 47 V
Module current	20 A
DC output side	
Load current	20 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 mm ² / 25 mm ² - AWG 6 / 4
Degree of protection	IP 65
Dimensions (X x Y x Z)	122 x 147 x 55 mm
Weight	410 g

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