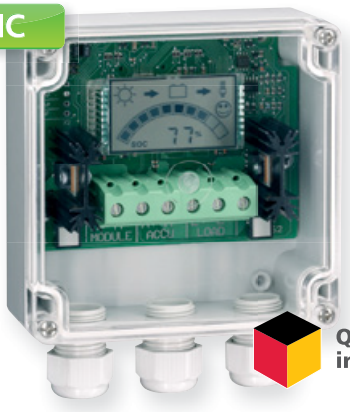
Steca PR 2020 IP

IP 65 version

The functionality of the Steca PR 2020 IP is based on the Steca PR line of solar charge controllers.

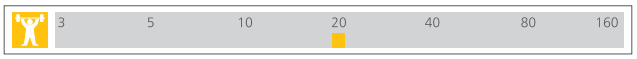
This is equipped with a large display which shows the current state of charge (SOC) as a percentage and graphically in the form of a tank. State of charge recognition forms the core of the charge controller. The auto-adaptive state of charge algorithm results in optimal battery maintenance and control.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

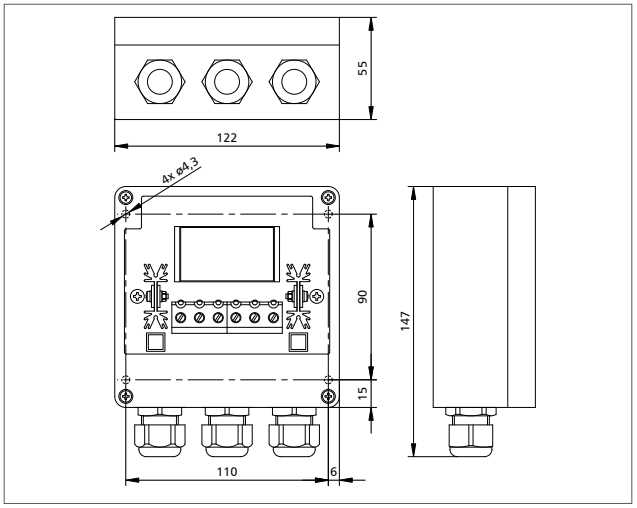
CLASSIC



Quality made in Germany

20 A





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
- 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 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
- Load disconnection on battery overvoltage

Displays

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

Operation

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

Options

Alarm contact*

Certificates

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

Steca accessories

- External temperature sensor Steca PA TSIP10

* special version, if the alarm option is needed, this needs to be mentioned on the purchase order.

	PR 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	< 47 V
Module current	20 A
DC output side	
Load current*	20 A
programmable: Reconnection voltage (SOC / LVR)	> 50 % / 12.6 V (25.2 V)
programmable: Deep discharge protection (SOC / LVD)	< 30 % / 11.1 V (22.2 V)
Battery side	
programmable: End of charge voltage	13.9 V (27.8 V)
programmable: Boost charge voltage	14.4 V (28.8 V)
programmable: Equalisation charge	14.7 V (29.4 V)
programmable: 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 65
Dimensions (X x Y x Z)	122 x 149 x 56 mm
Weight	350 g

Technical data at 25 °C / 77 °F

* Inverters must not be connected to the load output.