



Steca Solsum F 10.10F

The Steca Solsum F-Line continues the huge success of one of the most used SHS controllers. With a power range of up to 10 A at automatically recognized 12 V or 24 V it fits to a system sizes of maximum 240 W.

Full circuit board protection with LED display for simple recognition of battery status. Various connections make it possible to connect easily to solar panels, battery and load. The Steca Solsum F works on PWM as a low loss series controller.

BASIC



10.10F	
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
DC output side	
Load current**	10 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	
End of charge voltage*	13.9 V (27.8 V)
Boost charge voltage*	14.4 V (28.8 V)
Set battery type*	gel
Operating conditions	
Ambient temperature	-25 °C ... +50 °C
Fitting and construction	
Terminal (fine / single wire)	4 mm ² / 6 mm ² - AWG 12 / 9
Degree of protection	IP 32
Dimensions (X x Y x Z)	145 x 100 x 30 mm
Weight	approx. 150 g

* adjustable via Steca PA RC100

Technical data at 25 °C / 77 °F

** Inverters must not be connected to the load output.

Product features

- Series controller
- 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 maintenance 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
- 4 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
- Developed in Germany
- Manufactured according to ISO 9001 and ISO 14001

Steca accessories

- Remote control Steca PA RC100

