

## Steca Solsum

### 0606, 0808, 1010

The Steca Solsum 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.

#### 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 ( $\leq 36$  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

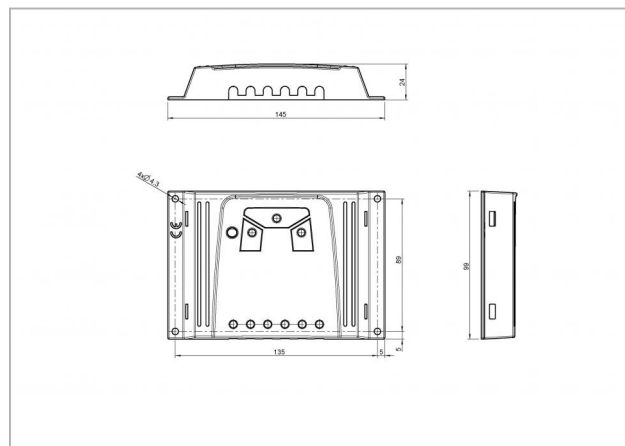
- Evening or night light function pre-set in the factory or adjustable via Steca PA RC 100
- Parameterisation of function values via Steca PA RC 100

#### Certificates

- Compliant with European Standards (CE)
- RoHS compliant
- Made in EU
- Manufactured according to ISO 9001 and ISO 14001

#### Accessories

- Steca PA RC100



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<b>Characterisation of the operating performance</b>			
System voltage	12 V (24 V)		
Own consumption	< 4 mA		
<b>DC input side</b>			
Open circuit voltage solar module (at minimum operating temperature)	< 47 V		
Module current	6 A	8 A	10 A
<b>DC output side</b>			
Load current	6 A	8 A	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)		
<b>Battery side</b>			
End-of-charge voltage	13.9 V (27.8 V)		
Boost charge voltage	14.4 V (28.8 V)		
Set battery type	gel		
<b>Operating conditions</b>			
Ambient temperature	-25 °C ... +50 °C		
<b>Fitting and construction</b>			
Terminal (fine / single wire)	4 mm <sup>2</sup> / 6 mm <sup>2</sup> - AWG 12 / 9		
Degree of protection	IP 31		
Dimensions (X x Y x Z)	145 x 100 x 30 mm		
Weight	ca. 150 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, battery type
- Inverters must not be connected to the load output.