

Solar charge controller SR 12M - SR 20M - SR 30M

The new generation of charge controllers sets new standards in the solar industry. Specialized integrated circuits open up new control features.

A learning algorithm is included, which allows for a pretty accurate monitoring of battery charging status. The program even accommodates for the capacity and age of the battery. Charging status is the foundation for all control features. A



novel hybrid actuator enables higher efficiency than standard shunt and serial controllers and ensures optimal battery charging. The charger is also equipped with multi-colour LEDs for concise information of charging status.

Over load protection

- charging voltage according to charge status and temperature
- different charging modes depending upon cycle loads.
- sparing and equally extremely quick charging
- automatic voltage detection 12/24V

Deep discharge protection

- load disconnection due to charge status
- pre-warning of load disconnection

Gassing control

- automatically activated after 40% discharging or in 30 day cycles

Display

SR 12 / SR 20 / SR 30:

Information indicated with two multi-colour diodes and blink modes.

- charge status with colour change
- operation mode and failure indication

SR 12 M / SR 20 M / SR 30 M:

- Charging current, charging voltage, discharge voltage,
- charge status of battery
- operation mode and failure indication

Safety

- Protection against surge and over current, over voltage and max. temperature
- Short circuit and reverse polarity protection

Technical specifications	SR 12 (SR 12 M)	SR 20 (SR 20 M)	SR 30 (SR 30 M)
rated voltage	12V/24V	12V/24V	12V/24V
max. input current	12 A	20 A	30 A
max. consumer current	12 A	20 A	30 A
full charging voltage	13.7 V	13.7 V	13.7 V
gassing activation	at 40% discharge	at 40% discharge	at 40% discharge
load re-connection	at 50 % capacity	at 50 % capacity	at 50 % capacity
connection clamps	6 mm ²	25 mm ²	25 mm ²
display with	2 LED	2 LED	2 LED
display of battery capacity	10 colour tone	10 colour tone	10 colour tone
Weight	300 g	300 g	300 g
Protection class	IP 22	IP 22	IP 22

SR 12 M / 20 M / 30 M display information on a 16 char LCD.