

Power system – Charger regulators

SPC66 / SPC88 • SOLAR POWER CONTROL UNITS



The SPC66 / SPC88 are solar charge controllers which contain the most recent and innovative technology, ideal for small and medium size solar power systems and very suitable for marine aids to navigation. In them, the battery charge is through PWM shunt regulator and the overdischarge is controlled with a MOSFET transistor.

Temperature compensation by means of an internal sensor is integrated in these controllers. These features allow them to provide a very efficient charge regulation, providing a high reliability and extending battery life.

The ingress protection (IP-67) of their box allows them to be used in the most adverse marine environment conditions.

Features

- High efficiency and reliability charge type shunt controller for small and medium size solar power systems.
- Pulse With Modulation (PWM) Battery charge regulation. Characteristic IV curve.
- High reliability due to MOSFET switch charging control.
- Usual system voltage of 12 V DC. It can be configurated optionally to 24 V DC.
- Integrated schottky diode to avoid battery discharge through the solar panel during the night.
- Short-circuit and wrong polarity protection integrated.
- LED-display for charging and battery voltage.
- Electromagnetic compatibility CE

Technical specifications

Specifications	SPC66	SPC88
Nominal voltage	12 / 24 V	
Max. charge current	6 A	8 A
Max. load current	6 A	8 A
Max. own consumption	4 mA	
Final charge voltage normale	13.7 V / (27.4 V)	
Temperature compensation	-4 mV / °C / cell	
Overdischarge disconnection Load reconnection	11.1 V / (22.2 V) 12.6 V / (25.2 V)	
Built in fuse current	6.3 A	10 A
Temperature range	-25 °C from 50 °C	
Dimensions	180 x 130 x 60 mm	
Connection terminal	2.5 / 4 mm ²	
Weight	550 gr	
Waterhightress degree	IP-67	

Led display to indicate battery charge.

- Red: 11,8 V (charging disconnected).
- Yellow: 12,3 V.
- Green: 12,8 V

Led display for charging functions by green Led.

- Green: Battery charging.
- Flashing green: Battery almost charged.
- Off: Battery charged.

