

SEALED LOW POWER PV CHARGE CONTROLLER

SBC-2106, 2016L

Description

This series of low powered and cost effective PV Charge Controller is designed for trouble free application in remote high humid environment.

The whole unit is potted in Epoxy Resin. It is suitable for seal or wet type lead acid battery and all types of PV modules. The full solid state electronic components using 0 to 100% Pulse Width Modulation charging and power switching by MOSFET assures optimal utilization of sunlight and safe charging of battery.

Selection for charging sealed or wet type of battery is made possible by shorting of terminal wire. The SBC-2106L is made with Night Light Load DC output.

Features

- Compact size.
- Water resistant.
- Simple to use.
- Electronic Blocking of reverse current to PV module.
- Sealed and Wet type battery connection.
- Night Light Mode DC output for L version.



Specifications

Models	SBC-2106	SBC-2106L
Battery System Voltage	12VDC	
Maximum PV Open Circuit Voltage	26VDC	
Maximum PV Short Circuit Current	6A	
PWM Set-point	Sealed type battery setting: 14.2V \pm 0.2V, Wet type battery setting: 14.5V \pm 0.2V	
Minimum Operating Voltage	9.5VDC	
Rated Charging Current	6A	
Maximum Charging Current (5 min.)	8A	
Rated Load Current	6A	
Maximum Load Current (1 min.)	8A	
PV Voltage While Load Turn ON	does not have load terminals	\leq 2V \pm 0.5V
PV Voltage While Load Turn OFF	does not have load terminals	\geq 3.5V \pm 0.5V
Low Battery Shutdown for Load	does not have load terminals	\leq 10.8V \pm 0.5V
Low Battery Recover for Load	does not have load terminals	\geq 12.3V \pm 0.4V
Ambient Temperature Range	-40°C to +60°C	
Relative Humidity	100%	
Approvals	CE EN 55022, EN 61001; FCC Part 15 Subpart B Class B	
Dimensions (WxHxD)	97x46x25.5 mm 3.8x1.8x1 inch	
Weight	250 g 8.8 oz	

* All values are based on the Standard ambient Temperature 25°C and Pressure 0.1Mpa.

* SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE