

SC-600W MPPT

Solar Charge Controller

SC-600W MPPT solar charge controller uses PWM-based DSP controller to keep the batteries regulated and prevent batteries from overcharging and discharging.

Applying intelligent MPPT algorithm, it allows SC-600W MPPT solar charge controller to extract maximum power from solar arrays by finding the maximum power point of the array.

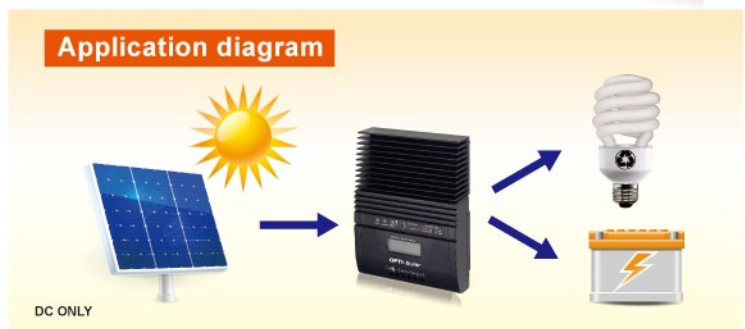
The solar charge controller facilitates a standalone energy system. Typical applications are listed below:

- Mobile applications such as moving van, lodge, log cabin, or night market.
- Lighting applications such as street lights, road lights, or garage lights.
- Remote village with power shortage.



Features

- Intelligent Maximum Power Point Tracking technology
- Built-in DSP controller with high performance
- Automatic battery voltage detection
- Three-stage charging optimizes battery performance
- Auto load-detection
- Multifunction LCD displays detailed information
- Reverse polarity protection for solar panel and battery
- Overcharge and overload protection
- IP 43 protection for outdoor and harsh environment
- Suitable for battery types: sealed lead acid, vented, Gel, and NiCd



Specifications

Model	SC-600W MPPT
INPUT	
MPPT Range @ Operating Voltage	30 V ~ 66 V
Maximum PV Array Open Circuit Voltage	75 V
Maximum PV Array Power	600 W
Maximum Current	18 A
OUTPUT	
Nominal Battery Voltage	24 V
Connected Battery Type	Sealed lead acid, vented, Gel, NiCd battery
Maximum Charging Current	25 A
Maximum Efficiency	97.80%
Standby Power Consumption	2W
Charging Method	2 W
Ripple Voltage	Three stages: bulk, absorption, and floating
PROTECTION	
Overcharge Protection	> 110%, audible alarm
Polarity Reversal Protection @ Solar Cell & Battery	Yes
Overload Protection	Yes
INDICATORS	
LCD Display	LCD panel indicating solar power, output power, battery voltage, charging current, and fault conditions
LED Display	Three indicators for solar, charging, and load status
PHYSICAL	
Dimension (DxWxH)	220x170x57.5mm
Net Weight	1.85kg
Connector	Input/Output terminal block
Type of Mechanical Protection	IP 43
ENVIRONMENT	
Humidity	0 ~ 90% RH (No condensing)
Altitude	0 ~ 3000 m
Operating Temperature	-20°C to 55°C
Storage Temperature	-40°C to 75°C

Specifications are subject to change without notice.