



# SSG POWER (P) LTD

A Unit Of SSG Group

An ISO 9001:2008 , ISO 14001:2004 Certified Company

## Solar Charge Controller

Solar Charge Controller is designed with utmost precision to ensure the longest battery life. It is developed with three-stage PWM charging technology. Emric provides these Solar Charge Controllers in various configuration rating from 12V / 8A to 120V / 60A. Being modular, these can be upgraded to a suitable design of 12V-24V-48V-96V-120V as per customer requirement. We have two types of Solar Charge Controller namely MPPT Charge Controller and PWM Charge Controller.



## Features

- Microcontroller Control for Fully Intelligent System
- Utilizes Serial Mode PWM Control for Maximum Efficiency
- Temperature Compensation
- Suitable for Both 12V and 24V
- Suitable for Gel, Sealed and Flooded Lead-Acid Batteries
- Full Installation Instructions Included.

## Technical Specifications

Model	12V / 10A PWM Charge Controller	12V / 20A PWM Charge Controller
System Voltage	12/24 V auto recognition	
Max.charge/load Current	10 A	20 A
Float Charge	13.7/27.4 V (25 °C)	
Boost Charge	14.4/28.8 V (25 °C), 2h Activation: Battery Voltage < 12.3/24.6 V	
Equalization	14.8/29.6 V (25 °C), 2h Activation: Battery Voltage < 12.1/24.2 V	
Deep discharge protection:State-of-charge dependent voltage dependent reconnect level	11.4 - 11.9 V / 22.8 -23.8 V 11.0/22.0 V  12.8/25.6 V	
Over Voltage Protection	15.5/31.0 V	
Under Voltage Protection	10.5/21.0 V	
Max. Panel Voltage (Overvoltage protection by varistor)	30 V in 12 V system 50 V in 24 V system	
Temperature Compensation (Charge Voltage)	-25 mV/K at 12 V   -50 mV/K at 24 V	
Max. Own Consumption	< 4 mA	
Grounding	Positive Grounding Possible	
Ambient Temperature	-40 to + 50 °C	
Max. Height	4,000 m above sea level	
Battery Type	Leat acid (GEL, AGM, Flooded)	
Wire Cross Section	Up to 16 mm <sup>2</sup>	
Weight	160 g	
Dimensions (W x H x D)	80 x 100 x 32 mm	
Type of Protection	IP22	

## **Features of Solar MPPT Charge Controller**

- MPPT Technology
- Peak Conversion efficiency of 97%
- High Tracking efficiency of 99%
- Several seconds tracking speed
- 4 Stage charge with PWM Output
- Excellent thermal design and air cooling
- Full power output in ambient temperatures up to 45°C
- Temperature Compensation Function
- Diversified load control
- RJ45 interface with optional remote meter