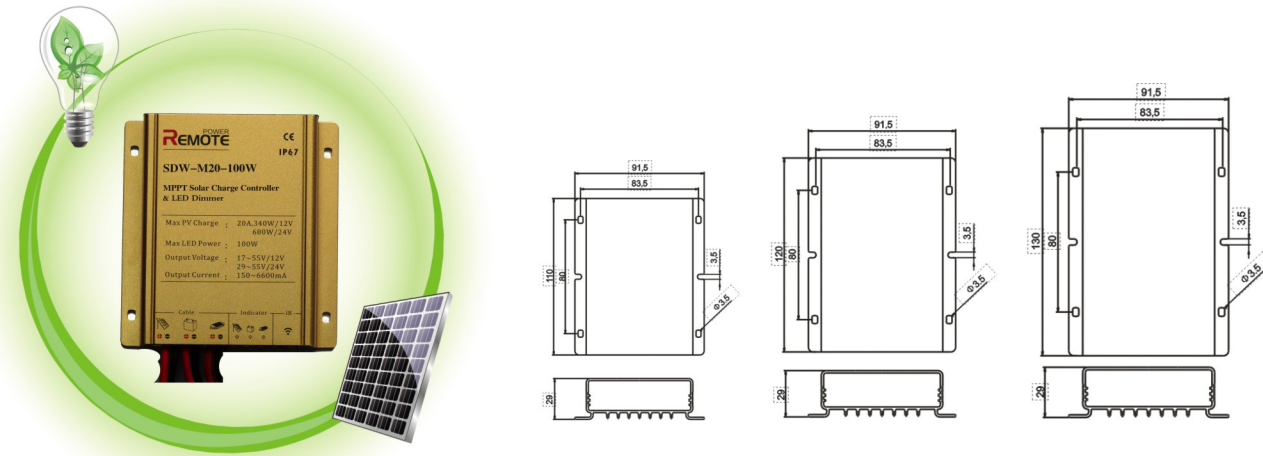


SDW-M Series MPPT Solar Charge controller & LED Dimmer

Product Introduction

SDW-M Series, is a MPPT solar charge controller with built in LED driver. Using MPPT technology, real-time tracking of the best working point of solar panel, with maximum power from PV to charge the battery. PV charge efficiency can be significantly improved 20%~30%.



Product Family

SDW-M10-60W, SDW-M10-100W, SDW-M15-60W, SDW-M15-100W, SDW-M20-60W, SDW-M20-100W

Main Features

- MPPT technology, Compatible with AGM, Gel, Li etc battery type.
- Peak conversion efficiency up to 98%
- High tracking efficiency of 99%
- 6 Time Periods Load Control (Timer+Dimmer).
- Automatic 12V/24V Detection
- motion sensor function (optional).
- waterproof IP67
- max output efficient of 96%
- Aluminum housing for better cooling
- 40~+55°C wide temperature range

Protections

- PV reverse polarity/overvoltage alarm protection
- Battery overcharge/over discharge/reverse polarity protection
- Battery temperature too high or too low protection, particularly suitable integrated with lithium-ion battery
- Overload/Short circuit/Open circuit/Over Voltage protection
- Over Temperature protection

Technical Specifications

MPPT Solar Charge Controller & LED Dimmer (Waterproof)						
Model	SDW-M10-60W	SDW-M10-100W	SDW-M15-60W	SDW-M15-100W	SDW-M20-60W	SDW-M20-100W
System voltage	12/24V Auto					
LED Dimmer parameter						
Max output power	60W 12V&24V	60W12V 100W24V	60W 12V&24V	60W12V 100W24V	60W 12V&24V	60W12V 100W24V
Max. boost output voltage	17~55V/12V (27~55V/24V)					
Max. output current	3.3A					
LED Dimmer range	0~100%					
Current step	50mA					
Smart mode	4 types save energy mode, 2 types motion sensor function (optional)					
Timer	6 Time period output control					
Typical efficiency	92~95%					
Accuracy Current	3%, when take 80% rated power load can reach 1%					
Over Load Capability	105% Output Rater Power					
PV parameter						
Max. PV Output power	170W12V/340W24V		255W12V/510W24V		340W12V/680W24V	
Max. PV Open circuit voltage	100V					
Max. PV current	10A		15A		20A	
Power conversion efficiency	>98%					
Battery parameter						
Type of Battery	AGM		GEL		Li Custom	
Max. Battery voltage	34V					
Main charge voltage*	14.2V		14.4V		/	
Boost charge voltage*	14.6V		14.8V		/	
Float charge voltage*	13.6V		13.6V		/	
Equalization charge voltage*	14.6V		14.8V		/	
Over Discharge voltage*	11.1V		11.0V		/	
Reconnect voltage*	12.6V		13.0V		/	
Temp. compensation	4mV/°C/2V		/		/	
Others						
External Communication	RS485/2400pbs, Modbus (optional)					
Self-consumption	<15mA					
Over Term.	85°C					
low voltage protect	30% Energy					
Dimensions (LxWxH)	110x100x30		120x100x30		130x100x30	
Net weight	510g		550g		590g	
Enclosure	IP67					
Working temperature	-40~+55°C					
*Note: Technical data for 12V system at 25°C, x2 in 24V system						

Application

