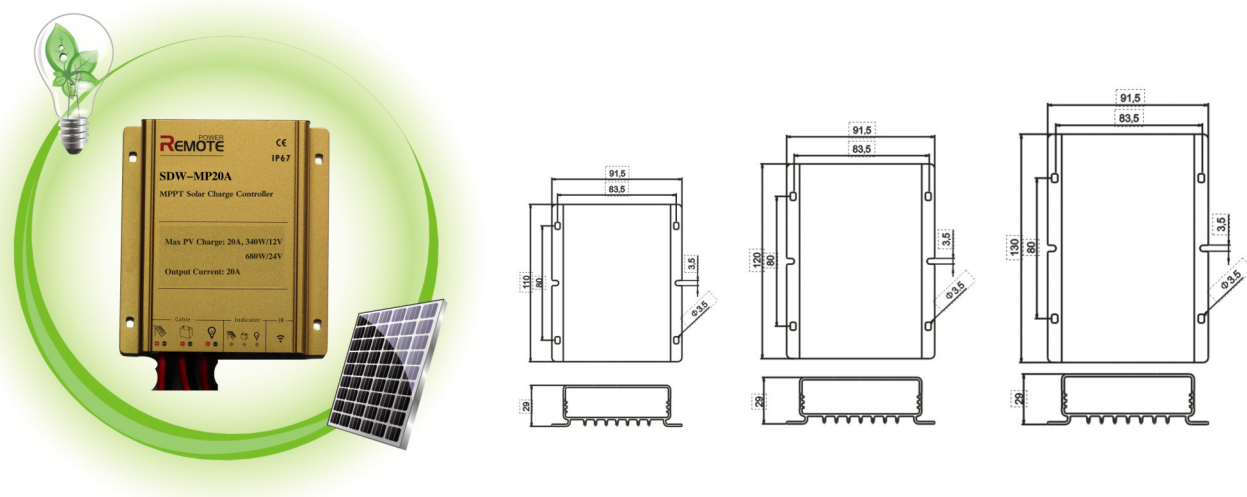


SDW-MP Series MPPT Solar Charge controller

Product Introduction

SDW-M Series, is a MPPT solar charge controller. 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-MP10A, SDW-MP15A, SDW-MP20A

Main Features

- MPPT technology, Compatible with AGM, Gel, Li etc battery type.
- Peak conversion efficiency up to 98%
- High tracking efficiency of 99%
- Over Load Capability 110% normal running, 125% 1min, 150% 20s
- Automatic 12V/24V Detection
- 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
- Over Temperature protection

Technical Specifications

MPPT Solar Charge Controller (Waterproof)				
Model	SDW-MP10A	SDW-MP15A	SDW-MP20A	
System voltage	12/24V Auto			
Load parameter				
Max.boost output voltage	17~55V/12V (27~55V/24V)			
Rated output current	10A	15A	20A	
Typical efficiency	98%			
Over Load Capability	110% normal run,125% 1min,150% 20s			
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	Custom	/
Boost charge voltage*	14.6V	14.8V		10~20V
Float charge voltage*	13.6V			10~20V
Equalization charge voltage*	14.6V	14.8V		/
Over Discharge voltage*	11.1V	11.0V		8~20V
Reconnect voltage*	12.6V	13.0V		10~20V
Temp.compensation	4mV/°C/2V	/		/
Others				
External Communication	RS485/2400pbs, Modbus (optional)			
Self-consumption	<14mA			
low voltage protect	30% Energy			
Over Term.	85℃			
Dimensions (LxWxH)	88x88x21	110x100x25		
Net weight	510g	550g	590g	
Enclosure	IP67			
Working temperature	-40~+55℃			
*Note: Technical data for 12V system at 25℃, x2 in 24V system				

*Note: Technical data for 12V system at 25°C, x2 in 24V system

Application

