



MPPT Solar Charge Controller

The maximum power point is mainly affected by the ambient temperature and the intensity of sunshine. This MPPT solar controller can intelligently regulate the working voltage of solar panels, letting the solar panels always work at Maximum Power Point of V-A curve. Compared with ordinary solar controller, this MPPT controller can increase the efficiency of PV modules by about 30%. However, due to many different factors, such as the difference in solar panel making, the change the Sun illuminance, change in temperature, the efficiency of the controller etc., the actually available increased rate is 10%-30%.

PRODUCT FEATURES: ■

- Applicable to various types of batteries, ◆
- MPPT function ◆
- Maximum Power Point Tracking makes efficiency up to 99.9% ◆
- Temperature sensor the battery charging compensation ◆
- Overload protection (automatic restoration) ◆
- Overcharge protection ◆
- Short circuit protection (automatic restoration), ◆
- Thunder protection ◆
- Reverse discharge protection ◆
- Reverse polarity connection protection (automatic restoration) ◆
- Under voltage protection ◆

■ SPECIFICATIONS

Model	MPPT12/24 - 10D	MPPT12/24 - 20D	MPPT12/24 - 30D
Rated Voltage	12V / 24V		
Max charge current	10A	20A	30A
MPPT efficiency	≥99%		
PV over vltager protection	60V/90V		
Input voltage range	20V~60V / 30V~90V		
Full charge cut	13.8V / 27.6V		
constant volatge	14.4V/28.8V		
Low voltage cut	10.5V~11V / 21V~22V		
Over voltage protection	17V / 34V		
Temperature compensation	-3mv/°C /cell		
No load loss	≤30mA		
Max cross section	16mm ²		
Ambient temperature	-25 °C — +55 °C		
Weight	1820g		
Size	165×175×95mm	195×175×95mm	