

MPPT1 Series

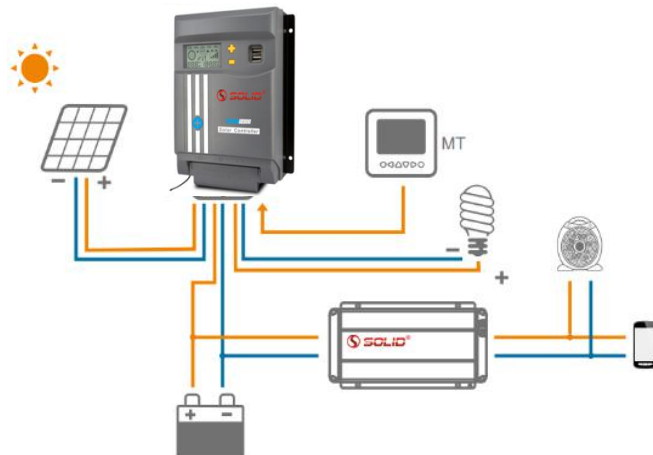
Solar Charger Controller



MPPT1 Series products adopts DC/DC converting and MCU Technology. It can track the working point of the solar array intelligently to make solar array realize the maximum power output. When the external condition changes, MPPT controller bases on the MCU theory to track the maximum working point of solar panels, this improves the efficiency of solar panels and charge controllers, MPPT improves the output efficiency and decreases the solar generating costs comparing to PWM.

FEATURES

- High efficiency MPPT Charging
- MPPT efficiency > 99%, Peak conversion efficiency > 98%
- 12/24V auto work
- PV Input: 100V max
- Multi-stages charging
- Mode (MPPT, Absorption, Float, Equalization)
- USB output (5V, 1A)
- Over load protection
- Over charge protection
- Over discharge protection
- Lighting protection
- Reverse polarity protection



PRODUCT MODEL

MPPT110D	12/24V
MPPT120D	12/24V
MPPT130D	12/24V
MPPT140D	12/24V
MPPT520D	12/24/36/48V
eMPPT40	12/24/36/48V
eMPPT60	12/24/36/48V
eMPPT90	12/24/36/48V



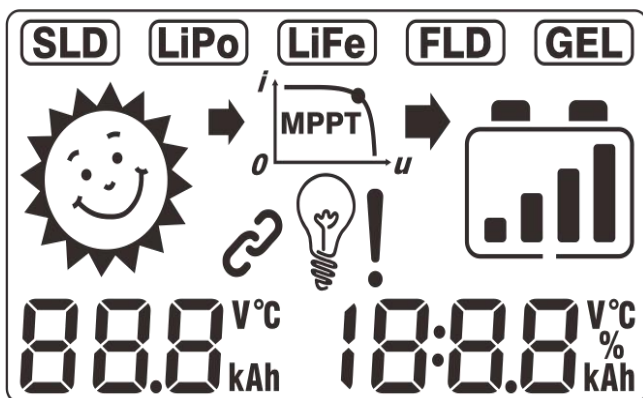
Application



TECHNICAL SPECIFICATIONS

Model	MPPT110D	MPPT120D	MPPT130D	MPPT140D	eMPPT40D	eMPPT60D	eMPPT90D
Rated Voltage	12/24VDC auto				12/24/36/48VDC auto		
PV Voltage	10-40V/20-65V						
PV Over Voltage Protection	100V			150V			
Max. Charge Current	10A	20A	30A	40A	40A	60A	90A
MPPT Efficiency	> 99%						
Battery Types	12V or 24V rechargeable lead-acid battery/AGM, GEL, Lithium battery						
Self-consumption Standby	< 40mA						
Self-consumption with load	< 130mA						
Regular Charge Voltage	14.6V(14~15V), 29.2V(28~30V), 43.8V(42~44V), 58.4V(56~60V) Settable						
Float Charge Voltage	13.8V/27.6V				13.8V/27.6V/41.4V/55.2V		
Over Charge Disconnection	17V/34V				17V/34V/51V/68V		
Over Discharge Disconnection	11V/22V ±5% settable				11V/22V/33/44 ±5% settable		
Over Discharge Recovery	12.8V/25.6V ±5% settable				12.8/25.6/38.4/51.2 ±5% settable		
Environment Temperature	-25~50℃						

LCD Display Content



Status introduce

Item	ICO	Status
PV array		Day
		Night
Battery		Uncharged
		Charging
		Battery power
		Battery type
Load		load open
		load off