



This series products adopts DC/DC converting technology and MCU technology. It can adjust the working point of the solar panels array intelligently to make the solar panels 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 the solar panels, this can improve the using efficiency of the solar panels and decrease the solar generating cost. Compared with average solar charge controllers, MPPT can improve the output efficiency of the solar panels by 5% to 30 % (the output increasing proportion affected by the factors such as the attribute of the solar panels, environmental temperature and lighting conditions).

Functions:

LCD display	12/24V Auto	Clock	MPPT	Protections	Battery type	Battery capacity percentage	Color screen with backlit
							Optional
Working mode of Load	Temperature compensation	Parameters adjustable	Accumulated ampere hours	Button mode	Remote monitoring and control	USB Output	

Features

- 1.DSP processors architecture ensures high speed and performance
- 2.MPPT efficiency > 99%, Peak conversion efficiency > 98%
- 3.12V/24V auto work
- 4.PV input:75V or 125V max
- 5.Four-stages charging mode
- 6.Protection:PV array short circuit,PV reverse polarity,Battery reverse,polarity,Over charging, Output short circuit
- 7.USB output
- 8.LCD display



Rated Voltage:12V24VAuto
Rated Current:10A



Rated Voltage:12V24VAuto
Rated Current:30A



RV, boat & field power supply solar system



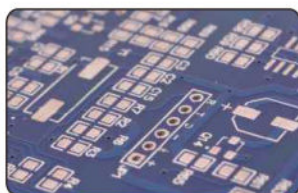
Off-grid home solar system



Farm solar generation system

Technical Data

Model	MPPT110D	MPPT120D	MPPT130D	MPPT140D
System voltage	12V/24V Auto			
Battery voltage range	9~32V			
Max charging current	10A	20A	30A	40A
Max PV voltage	100V			
Battery type	User,Flooded,AGM,GEL,LifePO4,Lithium			
Equalize charge	SLD: 14.6V, GEL: null, FLD: 14.8V			
Absorption charge	SLD: 14.4V, GEL: 14.2V, FLD: 14.6V			
Float charge	GEL,SLD,FLD: 13.8V			
Low voltage disconnection	GEL,SLD,FLD: 10.8V			
Low voltage reconnection	GEL,SLD,FLD: 12.6V			
No load consumption	≤40mA			
High voltage disconnect	16V			
Equalize charge time	2hours			
Absorption charge time	2hours			
light control voltage	5V			
Temperature compensation	-4mV/ cell/ °C			
Charge loop voltage drop	≤0.29V			
Discharge loop voltage drop	≤0.16V			
LCD screen temperature range	-20 ~ +70 °C			
Working temperature	-20 ~ +55 °C			
storage temperature	-30 ~ +80 °C			
Humidity	0 ~ 90%.nocondensation			
Grouting	Positive grounding			
Communication mode	RS485,RJ45 port			



Optimized circuit design



Selection of quality materials



SCM accurate control