

MP Series MPPT Solar Charge Controller

Product Snapshot

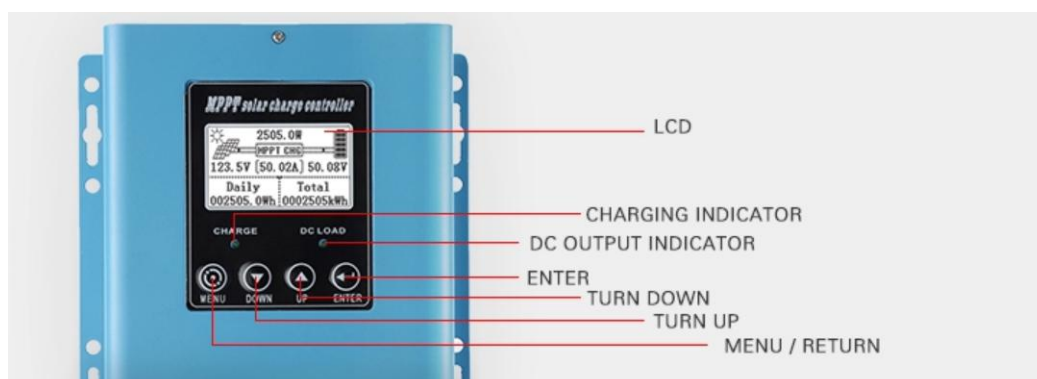
Model: 30A - 60A

12V/24V/36V/48V Auto



Key Features:

1. 12V/24V/36V/48V Auto recognition
2. PV Input 18V - 150V
3. 99% MPPT efficiency, more generation
4. Adapt to charge battery include AGM, Gel, flooded and lithium battery
5. LCD display daily and total generation





Product Protections



1. Over-charge Protection
2. Over-discharge protection
3. Over-voltage protection
4. Over temperature protection
5. Short-circuit protection
6. Reverse Polarity protection
7. Over-load protection
8. Open Circuit protection

Technical specification for MP series MPPT controller						
Model		MP-20A	MP-30A	MP-40A	MP-50A	MP-60A
Charging mode		MPPT automatic maximum power point tracking				
Charging method		Three stages: Constant current charging(MPPT), Equalizing charging, float charging				
System Type		DC 12V/24V/36V/48V, automatical recognition / manual setting				
Voltage recognition range		9-15VDC (12V) / 18-30VDC (24V) / 27-45VDC (36V) / 36-60VDC (48V)				
Static power consumption		≤2W				
Overall transfer efficiency		≥96.5%, ≤99%				
PV module utilization		≤99.76%				
Input Characteristic						
Working voltage range		18-100VDC (12V) / 34-100VDC (24V) / 49-100VDC (36V) / 65-150VDC (48V)				
Low battery protection		≤16VDC (12V) / ≤30VDC (24V) / ≤45VDC (36V) / ≤60VDC (48V)				
Low battery resumption		≥18VDC (12V) / ≥34VDC (24V) / ≥49VDC (36V) / ≥65VDC (48V)				
High battery protection		≥160VDC (12V / 24V / 36V/ 48V)				
High battery resumption		≤145VDC (12V / 24V / 36V/ 48V)				
Maximum input voltage		160VDC (12V / 24V / 36V/ 48V)				
PV max input power	12V system	280W	420W	570W	700W	900W
	24V system	550W	840W	1130W	1400W	1700W
	48V system	1100W	1650W	2270W	2800W	3400W
Output characteristic						

Model		MP-20A	MP-30A	MP-40A	MP-50A	MP-60A
Output	Rated current	20A	30A	40A	50A	60A
	Current-limiting protection	22A	32A	42A	52A	62A
	Temperature coefficient	±0.02%/℃ (12V / 24V / 36V/ 48V)				
	Auto temperature compensation	14.2V - (Max. Temperature - 25℃) * 0.3				
	Output voltage stability accuracy	≤±1.5%				
Protection	Low & high battery protection	Have high and low voltage protection				
	High temperature	90℃, decrease power output when ≥85℃				
	Short circuit protection	Available for long time, self-recovery after removing the short-circuit fault				
	other protection	over charge, over discharge, over load, reverse connect				
Other	Display	LCD intelligent display with function buttons				
	Optional battery type	Maintenance-free lead acid battery(default), colloidal battery, liquid battery, lithium battery, others are available by customizing				
	Cooling system	Intelligent fan by forced air cooling, fan speed is adjusted by real temperature				
	Communication	RS-485/RS-232/USB/SNMP (additional option)				
Environment	Storage temperature	-40~+70℃				
	Humidity	<90%RH (No condensation)				
	Atmospheric pressure	70~106kPa				
Appearance	Product size (mm)	265*194*100mm		295*224*100mm		
*Product specifications are subject to change without further notice						