



High performance chip



High speed fans



Multiple protections

SOLAR CHARGING SYSTEM
DC LOADS

New



ST-MP60

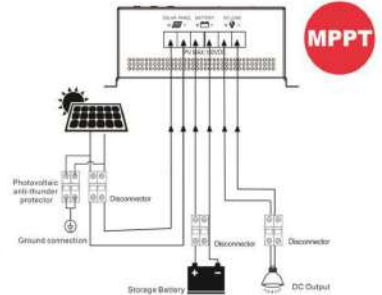
Technical Parameter

ST-MP-series

Model: ST-MP30A/40A/50A/60A/80A/100A	30A	40A	50A	60A	80A	100A
charging mode	MPPT automatic maximum power point tracking					
charging method	Three stages: constant current charging(MPPT), Equalizing charging, float charging					
system type	12V/24V/48V		Automatic recognition/Manual setting			
System identification voltage range	12V system		DC9V-DC15V			
	24V system		DC18V-DC30V			
	48V system		DC36V-DC60V			
Quiescent dissipation	12V/24V/48V		≤2W			
overall unit efficiency	12V/24V/48V		≥96.5%			
Photovoltaic module utilization ratio	12V/24V/48V		≤99%			
Input Characteristics						
mppt working voltage range	12V system		DC18V-DC150V			
	24V system		DC30V-DC150V			
	48V system		DC65V-DC150V			
maximum solar input power	12V system	450W	870W	700W	800W	1200W 1500W
	24V system	750W	1130W	1400W	1700W	2250W 2900W
	48V system	1500W	2270W	2800W	3400W	4500W 5700W
Output Characteristics						
Optional battery type (default lead-acid-free maintenance-free battery)			sealed lead acid, Gel, Nicd battery or Use-Defined			
Floating charging voltage(lead acid battery)	12V system	13.8V(customizable floating charge voltage)				
	24V system	27.6V(customizable floating charge voltage)				
	48V system	55.2V(customizable floating charge voltage)				
Average charge voltage(lead acid battery)	12V system	14.4V(customizable floating charge voltage)				
	24V system	28.8V(customizable floating charge voltage)				
	48V system	57.6V(customizable floating charge voltage)				
rated current	12V/24V/48V	30A	40A	50A	60A	80A 100A
current-limiting protection	12V/24V/48V	30A	40A	50A	60A	80A 100A
temperature coefficient	12V/24V/48V	±0.02%/°C				
Auto temperature compensation	12V/24V/48V	-4mV/C				

FEATURES

1. Creative maximum power point tracking technology can reach transfer efficiency of 97%.
2. Max. input voltage of solar panel: 150VDC.
3. With Clock timing function, light control mode, time control mode.
4. Excellent heat dissipation design and cooling fan of intelligent control.
5. Three types of lead-acid batteries and lithium battery charging program can be selected.
6. Can set up information on LCD display with button.
7. Protection function: over charge, over discharge, over-load, short circuit self-protection.



Technical Parameter

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Model: ST-MP30A/40A/50A/60A/80A/100A	30A	40A	50A	60A	80A	100A
Display						
LCD display	LCD panel indicating solar power, load level, battery voltage / capacity, charging current, and fault conditions					
LED display	DC output indication					
Protection						
Input low voltage protection	Reference input attribute					
input high voltage protection	Reference input attribute					
Input polarity reverse protection	yes					
Output polarity reverse protection	yes					
short-circuit protection	could be short-circuited for a long time, could be recovered after the short-circuit fault is eliminated					
High temperature protection	90 degrees Celsius					
Audible noise	≤45dB					
Heat dissipation mode	fan cooling					
type of mechanical protection	Ip32					
Environmental requirements						
Humidity	0 - 90%RH(No Dew)					
height above sea level	0 - 3500M					
Ambient temperature	-20°C - + 60°C					
storage temperature	-40°C - + 70°C					
Photovoltaic module configuration						
System voltage (battery voltage)	Photovoltaic module load voltage(recommended data)					
12V System	18V - 144V					
24V System	36V - 144V					
48V System	72V - 144V					

