

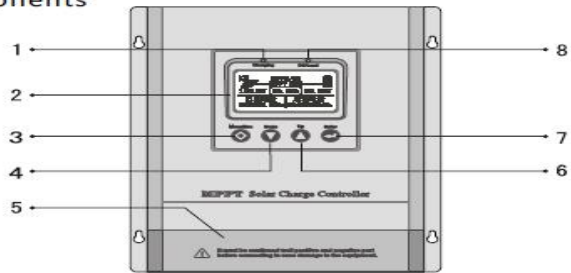


MPPT SOLAR CHARGER CONTROLLER

SCP12/24/48VDC-20A-100A

- Excellent heat dissipation design and intelligent controlled cooling fan.
- 12VDC/24VDC/48VDC automatic identification
- Charging voltage and discharge voltage can be set according to different requirements
- Innovative maximum power point tracking technology, the conversion rate of up to 97%
- Quick scan of the entire I-V curve. Efficient track the maximum power point.
- Three types of lead-acid battery, sealed, colloid, open type battery and lithium battery series charging procedures are optional.
- With the functions of over charge, over discharge, overload and short circuit automatic protection.
- With RS485 communicate interface. It can communicate with multiple and the upper computers, which is convenient to check the operating parameters of the controller.

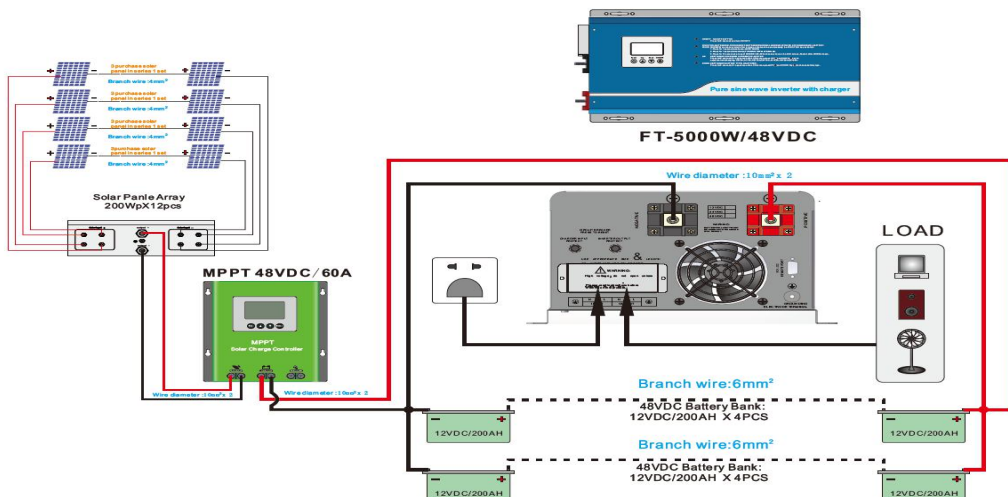
6.1 Description of panel components



Number	Description	Number	Description
1	Charging indicator light	5	Junction box cover plate
2	LCD Display	6	Upturn button
3	Function menu button	7	Confirm button
4	Scroll down	8	Dc output indicator light

6.2 Indicator light status

Indicator light	State	Statement
Charging indicator	Quick Flash	Maximum power tracking mode charge
	Slow flash	Floating charging mode
	OFF	Stop charging
Dc output indicator	ON	Normal Output
	Flash	Battery undervoltage prompt
	OFF	Close the output



TECHNICAL DATA

Model:MP-20/30/40/50/60		20A	30A	40A	50A	60A	80A	100A
Charging Mode	MPPT Automatic Maximum Power Point Tracking							
Charging Method	Three stages: Constant Current (MPPT), Balanced Charging, Floating Charge							
System Type	12V/24V/48V	Automatic Identification/Manual Setting						
System Identification Voltage Range	12V System	DC9V-DC15V						
	24V System	DC18V-DC30V						
	48V System	DC36V-DC60V						
Soft Start Time	12V/24V/48V	≤10s						
Dynamic Response Recovery Time	12V/24V/48V	≤500us						
Static Power	12V/24V/48V	≤2W						
Machine Efficiency	12V/24V/48V	≥97%/99%						
PV Module Utilization	12V/24V/48V	≤99%						
Input Characteristics								
MPPT Operating Voltage Range	12V System	DC18V-DC150V						
	24V System	DC34V-DC150V						
	48V System	DC65V-DC150V						
Input Low Voltage Protection Point	12V System	DC16V						
	24V System	DC30V						
	48V System	DC60V						
Input Low Voltage Recovery Point	12V System	DC18V						
	24V System	DC34V						
	48V System	DC65V						
Limit Input Voltage	12V/24V/48V	DC160V						
Overvoltage Protection	12V/24V/48V	DC150V						
Overvoltage Recovery	12V/24V/48V	DC145V						
Maximum Solar Panel Input Power	12V System	280W	420W	570W	700W	900W	1100W	1380W
	24V System	550W	840W	1130W	1400W	1700W	2200W	2760W
	48V System	1100W	1650W	2270W	2800W	3400W	4400W	5500W