

CM-MPPT High Voltage Charge Controller

(96-192V / 50 A、100A)

MAIN FEATURES



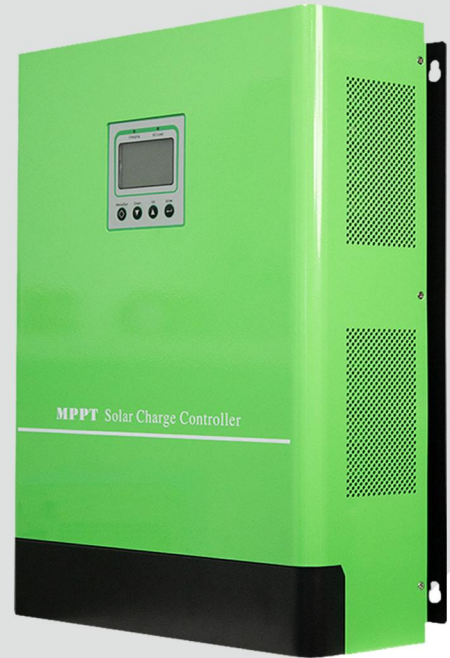
Innovative maximum power point tracking technology, the conversion rate of up to 97%



Quick scan of the entire I-V curve, Efficient track the maximum power point.



RS485 communication interface



Product Specifications

Model:CM-		50A	100A
Charging Mode		MPPT Automatic Maximum Power Point Tracking	
Charging Method		Three stages: Constant Current (MPPT), Balanced Charging, Floating Charge	
System Type		96V/192V	
System Voltage Range	96V System	DC72V-DC120V	
	192V System	DC144V-DC240V	
Soft Start Time	96V/192V	≤10s	
Dynamic Response Recovery Time	96V/192V	≤500us	
Static Power	96V/192V	≤6W	
Machine Efficiency	96V/192V	≤96.5%	
PV Module Utilization	96V/192V	≤99%	
Input Characteristics			
MPPT Operating Voltage Range	96V System	DC130V-DC180V / DC130V-DC420V	
	192V System	DC260V-DC420V	
Maximum Solar Panel Input Power	96V System	5300W	10600W
	192V System	8000W	20000W
Output Characteristics			
Optional Battery Type (Default is lead-acid maintenance-free battery)	96V/192V	Lead-acid maintenance-free Battery, Gel Battery, Lithium Battery (Can also be customized for other types of battery)	
Current Limiting Protection	96V/192V	82A	102A
Temperature Coefficient	96V/192V	± 0.02%/°C	
Temperature Compensation	96V/192V	14.2V-(Maximum Temperature -25°C)*0.3	
Output Regulation Accuracy	96V/192V	≤±1.5%	
Protection	Input Low Voltage Protection	Reference Input Characteristics	
	Input High Voltage Protection	Reference Input Characteristics	
	Short Circuit Protection	After 5 trial starts will enter the protection state, Restart Recovery	
	Temperature Protection	90°C	
	Temperature Rise Protection	Reduce Power Output When Exceed 85°C	
Other Parameters	Noise	≤50dB	
	Heat Dissipation Method	Forced air cooling, fan speed is adjusted by temperature	
	Mechanical Protection Type	IP21	
	Humidity	0-90%RH (No condensation)	
PV Module Configuration	System Battery Voltage	PV module load voltage (Recommended Value)	
	96V System	144V-320V (30V module*9 string, 36V module*8 string)	
	192V System	230V-420V (30V module*11 string, 36V module*10 string)	