

MPPT Solar Charge Controller

MC4885N15/MC48100N15/MC4885N25/MC48100N25



Product Characteristics

- 10-40% higher than PWM mode.
- MPPT tracking efficiency is up to 99.9%.
- Full-range electronic protection functions.
- Built-in temperature detection.
- RS485 Modbus protocol Built-in bluetooth module.
- Lead-acid batteries, colloidal batteries, open-ended batteries, lithium batteries.
- 12/24/36/48V identification.
- Current-limiting charging mode.
- Historical data storage.

Product Accessories

RM-7 display, USB to TTL cable, BTS temperature sensor.



Parameters

Model	MC4885N15	MC48100N15	MC4885N25	MC48100N25
System voltage	12V/24/36/48V			
Static power consumption	0.54W			
Maximum input voltage of solar energy (25°C)	150V		250V	
Voltage Range at MPP (Maximum Power Point)	Battery voltage +2~ 120V		Battery voltage +2~ 180V	
Charging current	85A	100A	85A	100A
Solar panel power(12V battery)	1100W	1320W	1100W	1320W
Solar panel power(24V battery)	2200W	2640W	2200W	2640W
Solar panel power(36V battery)	3300W	3960W	3300W	3960W
Solar panel power(48V battery)	4400W	5280W	4400W	5280W
Support battery type	AGM Battery,GEL Battery, Flooded Battery,Lithium Battery			
Temperature compensation coefficient	-3mV/°C/2V (default)			
Operating temperature range	-35°C~+65°C			
Humidity	95%, no condensation			
Protection grade	IP32			
Weight	5.7kg			
Communication mode	TTL(3.3V)/RS485/Bluetooth Module			
Product Dimensions	314*227*121 (mm)			
Terminal blocks	35mm ² /2AWG			
Functional authentication	IEC62509 : 2010			
Safety certification	ETL			

Product connection diagram



Technical requirements

