

# MPPT Solar Charge Controller

MC4860N15/MC4870N15/MC4860N25/MC4870N25



## 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	MC4860N15	MC4870N15	MC4860N25	MC4870N25
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	60A	70A	60A	70A
Solar panel power(12V battery)	800W	920W	800W	920W
Solar panel power(24V battery)	1600W	1840W	1600W	1840W
Solar panel power(36V battery)	2400W	2760W	2400W	2760W
Solar panel power(48V battery)	3200W	3680W	3200W	3680W
Support battery type	AGM Battery,GEL Battery, Flooded Battery,Lithium Battery			
Temperature compensation coefficient	-3mV/°C/2V (default, settable lead-acid); no temperature compensation for lithium battery.			
Operating temperature range	-35°C~+65°C			
Humidity	95%, no condensation			
Protection grade	IP32			
Weight	3.6kg			
Communication mode	TTL(3.3V)/RS485/Bluetooth Module			
Product Dimensions	Conventional : 266*194*119mm MC4 : 266*226*119mm			
Terminal blocks	35mm <sup>2</sup> /2AWG			
Functional authentication	IEC62509 : 2010			
Safety certification	ETL			

## Product connection diagram



## Technical requirements

