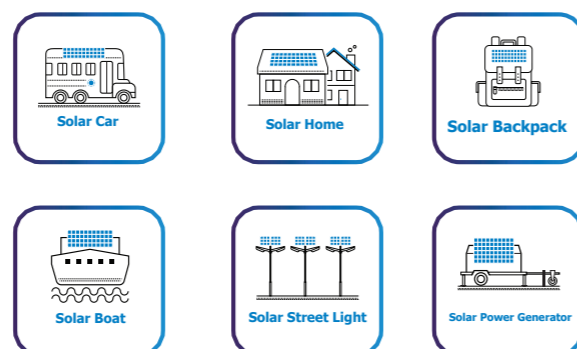




## Features

- MPPT tracking efficiency above %99.5
- Maximum charge conversion efficiency as high as %98
- Support lead-acid and lithium-ion batteries
- Common negative grounding, Charging current up to 100A
- Charging power and current limitation function
- High-temperature charging power derating function
- 3 relays design for different demand: utility, generator and load
- Support up to 6 units in parallel
- Remote temperature and voltage sensor design
- Isolated RS485- with 5VDC/200mA and MODBUS protocol



Model	MC4860
Nominal system voltage	12/24/36/48VDC/Auto
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium (LiFePO4/Li(NiCoMn)O2)/User
Battery input voltage range	8V ~ 68V
Rated charge current	60A
Rated charge power	750W/12V 1500W/24V 2250W/36V 3000W/48V
Max. conversion efficiency	98.60%
Tracking efficiency	≥99.5%
Max. PV open circuit voltage	150V (At minimum operating environment temperature) 138V (At 25°C environment temperature)
MPP voltage range	(Battery Voltage + 2V) ~ 108V
Equalization voltage	Sealed:14.6V, Flooded:14.8V, User-defined:9-17V
Boost voltage	Gel:14.2V, Sealed:14.4V, Flooded:14.6V, User-defined:9-17V
Float voltage	Gel/Sealed/Flooded:13.8V, User-defined:9-17V
Low voltage reconnect voltage	Gel/Sealed/Flooded:12.6V, User-defined:9-17V
Low voltage disconnect voltage	Gel/Sealed/Flooded:11.1V, User-defined:9-17V
Self-consumption	98mA/12V; 60mA/24V; 50mA/36V; 46mA/48V
Temperature compensation (for lead-acid battery)	-3mV/°C/2V (Default)
Relative humidity	5% to 95% (N.C.)
Enclosure	IP20
Communication interface	RS485(5VDC/200mA, Two RJ45 ports in parallel)
Grounding	Common negative
Operating temperature range	-25°C ~ +60°C (derating above 45°C)
Dimensions(LxWxH)(mm)	340×236×119
Net weight	4.5kg