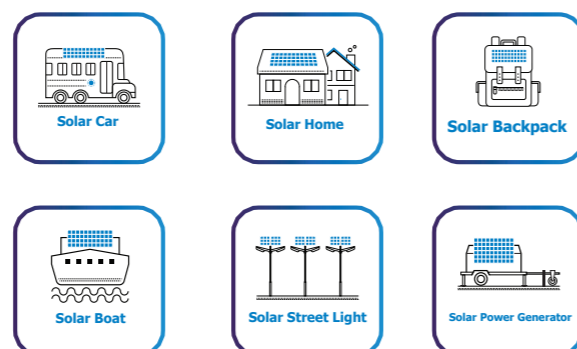




Features

- MPPT tracking efficiency above 99.5%
- Maximum charge conversion efficiency as high as 97.4%
- Support lead-acid and lithium-ion batteries
- Multiple load work modes
- Charging power and current limitation function
- High-temperature charging power derating function
- Standard Modbus communication protocol with isolated RS485 interface
- Real-time energy statistics function
- Optional Bluetooth module unit.
- IP33 ingress protection design
- CE(LVD IEC62109,EMC EN61000-6-1/3)and ROHS,ETL(UL-1741:2010 and Canadian CSA C22.2- No.107.1.01),FCC Class B Part 15 Compliant,IEC62509:2010



Model	MC2420	MC2430	MC2440
Nominal system voltage	12/24VDC/		
Battery type	Lead-acid (Sealed/Gel/Flooded)/Lithium (LiFePO4/Li(NiCoMn)O2)/User		
Battery input voltage range	8~32V	8~32V	8~32V
Rated charge current	20A	30A	40A
Rated discharge current	20A	30A	40A
Rated charge power	260W/12V 520W/24V	390W/12V 780W/24V	520W/12V 1040W/24V
Max. conversion efficiency	98.30%	98.60%	98.60%
Tracking efficiency	≥99.5%		
Max. PV open circuit voltage	60V (At minimum operating environment temperature) 46V (At 25°C environment temperature)	100V (At minimum operating environment temperature) 92V (At 25°C environment temperature)	
MPP voltage range	(Battery voltage+2V) ~36V	(Battery voltage+2V) ~72V	(Battery voltage+2V) ~72V
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	≤14mA(12V) ≤15mA(24V)	≤30mA(12V) ≤16mA(24V)	≤30mA(12V) ≤16mA(24V)
Temperature compensation (for lead-acid battery)	-3mV/ /2V (Default)		
Relative humidity	≤95%, N.C		
Enclosure	IP33		
Communication interface	RS485(RJ45)		
Grounding	Common negative		
Operating temperature range	`-25 ~ +50 (LCD);-30 ~ +50 (No LCD)		
Dimensions(LxWxH)(mm)	217×158 ×56.5	230×165 ×63	255×185 ×67.8
Net weight	0.96kg	0.96kg	1.70kg