

# Charge Controller

## 控制器



- 先进的双峰或多峰跟踪技术。
- MPPT 跟踪效率高达 99.9% 电源技术将电路的能量转换效率提高到 98%。
- 支持可充电的胶体电池，密封电池，固定式电池和定制电池等。
- 控制器具有限流充电模式。当太阳能电池板的功率超过一定水并且充电电流大于额定电流时，控制器将自动降低充电功率并使充电电流达到额定水平。
- 支持瞬时大电流启动容性负载。
- 自动识别蓄电池电压。
- 控制器配有 LCD 屏幕，用户不仅可以检查操作数据和状态，还可以修改控制器参数。
- 该控制器可用于标准 Modbus 协议，并满足不同的通信需求。

- The advanced dual-peak or multi-peak tracking technology. MPPT tracking efficiency is up to 99.9%. Advanced digital power technology raises the circuit energy conversion efficiency to 98%.
- Support charging gel batteries, sealed batteries, abroach batteries and customized batteries, etc.
- The controller features a limited current charging mode. When the solar panel power exceeds a certain level and charging current is larger than the rated current, the controller will automatically lower the charging power and bring the charging current to the rated level.
- Instantaneous large current startup of capacitive load is supported.
- Automatic identification of storage battery voltage.
- The controller is equipped with an LCD screen with which users can not only check operating data and status, but also modify the controller parameters.
- The controller is available for standard Modbus protocol and meets different communication needs.

Model	MC2420N10	MC2420N10	MC2420N10	MC2420N10
System voltage	12V/24V			
Static power	0.12W			
Maximum Input voltage of solar energy (25°C)	100V			
Maximum power point voltage range	Battery voltage+ 2~75V			
Rated charging current	20A	30A	40A	50A
Solar panel power (12V battery)	260W	400W	520W	660W
Solar panel power (24V battery)	500W	800W	1040W	1320W
Support battery type	Lead-acid battery, gel battery, open battery, lithium battery			
Temperature compensation coefficient	-3mV/°C/2V (Defaults)			
Operating temperature	-35°C~80°C			
Humidity	95%, No condensation			
Protection level	IP32			
Weight	650g	830g	1040g	1335g
Communication method	TTL (3.3V)			
Product Size (L*W*H)	150*156*62 (mm)	150*156*68 (mm)	183*127*66 (mm)	183*127*70 (mm)
Terminals	10mm <sup>2</sup> / 8AWG			
Functional certification	IEC62509: 2010			

Model	ML2420	ML2430	ML2440	ML4860
System voltage	12V/24V			12V/24V/36V/48V
Static power	0.7~1.2W			
Battery voltage	100V			
Maximum input voltage of solar energy (25°C)	9~35V			9~72V
Maximum power point voltage range	100V			Battery voltage+ 2~120V
Rated charging current	20A	30A	40A	60A
Rated load current	20A			
Maximum capacitive load capacity	10000uF			
Maximum input power of photovoltaic system	260W/ 12V 520W/ 24V	400W/ 12V 800W/ 24V	550W/ 12V 1100W/ 24V	800W/ 12V 1600W/ 24V 2400W/ 36V 3200W/ 48V
Support battery type	Lead-acid battery, gel battery, open battery, lithium battery			
Temperature compensation coefficient	-3mV/°C/2V (Defaults)			
Operating temperature	-35°C~45°C			
Humidity	95%, No condensation			
Protection level	IP32			
Weight	1.4Kg	2Kg	2Kg	3.6Kg
Communication method	RS232			RS232/ RS485
Product Size (L*W*H)	210*151*59.5 (mm)	238*173*72.5 (mm)	238*173*72.5 (mm)	285*205*93 (mm)
Terminals	10mm <sup>2</sup> / 8AWG			20mm <sup>2</sup> / 4AWG
Functional certification	IEC62509: 2010			