

# MC series MPPT Solar Charge Controller



## Accessories

LCD display, BT-2 Bluetooth module, PC cable, BTS temperature sensor.



## Features



Use of maximum power point tracking (MPPT) algorithm leads to a significant improvement of system energy utilization efficiency and a charging efficiency 30% higher than that of PWM method. A variety of tracking algorithms are combined to quickly locate the best operating point of the I-V curve.



All-round electronic protection features: Battery reverse polarity protection, PV reverse polarity protection, PV short-circuit protection, charge over-current protection.



Support standard Modbus protocol to meet the communication needs in a variety of environments and occasions.



MPPT tracking efficiency is as high as 99.9% and circuit energy conversion efficiency as high as 98%; ultimate efficiency ensures no waste of energy.



Built-in temperature monitoring module allows for charging through derating, with no need for a fan, which ensures stable operation in extreme temperature environments.



Support a variety of lead-acid batteries and lithium batteries, and users can specify the charging parameters to their needs.

MPPT solar charge controller	SR-MC2420N10	SR-MC2430N10	SR-MC2440N10	SR-MC2450N10
Battery voltage	12/24V			
Charge current	20A	30A	40A	50A
Solar panel power ( 12V battery )	260W	400W	520W	660W
Solar panel power ( 24V battery )	520W	800W	1040W	1320W
Solar panel open circuit voltage	100V			
Static power consumption	10mA			
Types of battery supported	Lead-acid battery, colloidal battery, vented battery, lithium battery			
Equalizing charge	14.6V/29.2V ( Adjustable )			
Boost charge	14.4V/28.8V ( Adjustable )			
Floating charge	13.8V/27.6V ( Adjustable )			
Temperature compensation	-3mV/°C/2V			
Range of operating temperature	-35°C-60°C			
Humidity	95% , no condensing			
Wiring terminal	10mm <sup>2</sup> /8AWG			