

PY-MC series MPPT Solar Charge Controller



Accessories

LCD display, 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.



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.



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



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



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

MPPT solar charge controller	PY-MC2420N10	PY-MC2430N10	PY-MC2440N10	PY-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 ² /8AWG			