

## Solar Charging Controller

### MPPT MC-W Series



## SPECIFICATION

Model (MPPT MC-W-)		20A	30A	40A	50A	60A
Product category	Controller Properties	MPPT (maximum power point tracking)				
	MPPT efficiency	≥99.5%				
	Standby power	0.5W~1.2W				
Input Characteristics	Max.PV input voltage(VOC)	DC180V				
	Start the charge voltage point	Battery voltage + 3V				
	Low input voltage protection point	Battery voltage + 2V				
	Over voltage protection point	DC200V				
	Over voltage recovery point	DC145V				
Charge Characteristics	Selectable Battery Types	Sealed lead acid, Gel battery, Flooded				
	(Default Gel battery)	(Other types of the batteries also can be defined)				
	Charge rated current	20A	30A	40A	50A	60A
	Temperature Compensation	-3mV/°C/2V (default)				
Display &	Display mode	High-definition LCD segment code backlight display				
Communication	Communication mode	8-pin RJ45 port/RS485/support PC software monitoring/				
Other Parameters	Protect function	Input-output over \ under voltage protection,				
		Prevention of connection reverse protection,battery shedding protection etc.				
	Operation Temperature	-20°C~+50°C				
	Storage Temperature	-40°C~+75°C				
	IP(Ingress protection)	IP21				
	Noise	≤40dB				
	Altitude	0~3000m				
	Max. connection size	20mm <sup>2</sup>			30mm <sup>2</sup>	
	Net Weight (kg)	2.3			2.6	
	Gross Weight (kg)	3			3.5	
	Product Size ( mm )	240*168*66			270*180*85	
	Packing Size(mm)	289*204*101			324*223*135	

## FEATURES

- High efficient MPPT: Multiple Power Point Trackers (MPPTs) enable the output power of solar panel array to improve the energy conversion 20% ~ 30%.
- High reliability: Adopt advanced microprocessor to achieve "MPPT + SOC" dual intelligent optimized charging control to ensure the product to be stable and reliable
- Intelligent charging management: Adopt charging mode combined constant current and constant voltage to ensure effective battery charging and battery life.
- High efficiency: Adopt low power consumption MOSFET and PWM soft switch and synchronous rectifier technology, effectively improving the system operating efficiency.
- Intelligent: Auto-start by Illumination recognition (optional) - the system can configure auto start the load in the event of insufficient sunshine, such as fog, rain, night etc.
- Protections: Overcharge / overdischarge, short circuit, overload, reverse connection, TVS lightning protection etc.