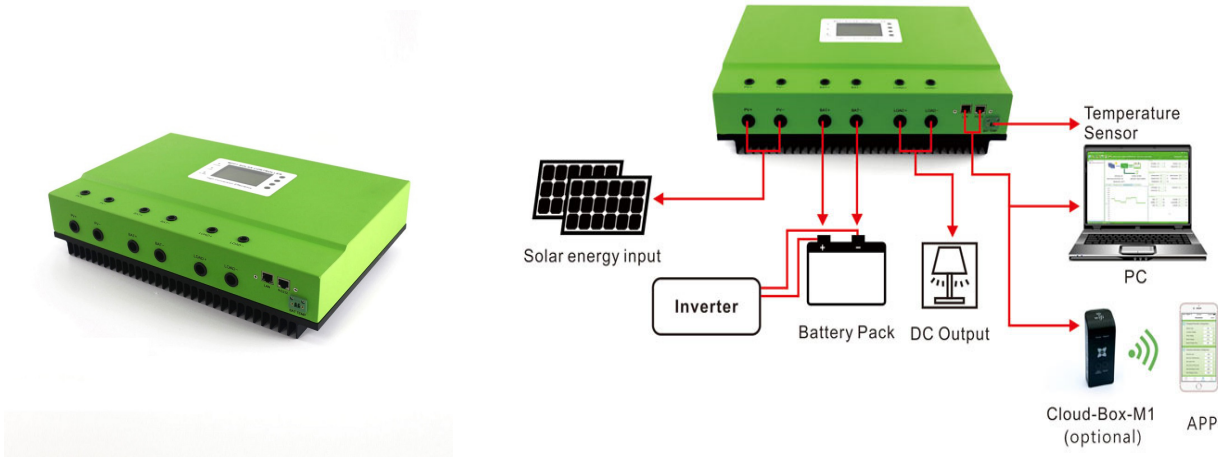


# MPPT Solar Charge Controller

TW-MR series (12V\24V\36V\48V\96V Auto 80A\100A\50A)



1. Efficient MPPT controller algorithm, MPPT efficiency is not less than 99.5%, and the conversion efficiency of the whole machine is up to 98%.
- 2, charging method: third-order charging (constant current, constant voltage, floating charge), can effectively extend the life of the battery.
- 3, LOAD mode has normally open / normally off mode, light control mode, dual time control mode, light control - fixed time control mode.
4. Automatic identification of battery system voltage.
- 5, customers can choose to charge 3 kinds of commonly used batteries (sealed lead-acid batteries, colloidal lead-acid batteries, open lead-acid batteries), and can be customized to charge other types of batteries.
- 6, with current-limiting charging function, when the user's battery board power is too large, the controller automatically maintains the charging power, the charging current will not exceed the rated value.
7. Support multi-machine parallel connection to achieve system power upgrade.
- 8, with high-definition LCD display function, you can view the device operating data and working status, and can support the modification of the controller display parameters.

9, RS485 communication, can provide communication protocols, to facilitate customer unified management and secondary development.

10, support the PC software monitoring, support WIFI module to expand the implementation of app cloud monitoring.

11. The products have passed CE, ROHS and FCC certifications; they can cooperate with customers to pass various certifications.

12, the normal warranty period of three years, can provide 3 to 10 years of extended warranty service.

TW-MR series			48BL-80A	48BL-100A	48BH-80A	96BH-50A
Product Category	Controller type		Controller with maximum power point tracking (MPPT)			
	MPPT efficiency		≥99.5%			
	System voltage		auto recognition		48V	96V
	Heat dissipation method		Natural cooling			
Input characteristics	PV maximum open circuit voltage (VOC)		DC150V		DC300V	
	Start charging voltage point		Higher than battery voltage 3V		Higher than battery voltage 10V	
	Input low voltage protection point		Higher than the current battery voltage 2V		Higher than the current battery voltage 5V	
	Input overvoltage protection point		DC150V		DC300V	
	Solar panel rated input power	12V system	1040W	1300W	-	-
		24V system	2080W	2600W	-	-
		36V system	3120W	3900W	-	-
		48V system	4160W	5200W	4160W	-
		96V system	-	-	-	5200W
Charging characteristics	Applicable battery type		Sealed lead acid battery, colloidal lead acid battery, open lead acid battery (can also customize parameters for other types of battery charging)			
	Charging current		80A	100A	80A	50A
	charging method		Three stages: constant current (fast charge), constant voltage, floating charge			
Load characteristics	Load voltage		Same battery voltage			
	Rated load current		80A	100A	80A	50A
	Load control mode		Normally open normally closed mode / dual time control mode / light control mode / light control - fixed time control mode			

Display/communication	Display method	LCD128*64 dot matrix backlight display
	communication method	8-pin RJ45 interface / RS485 / support host computer monitoring / support WIFI module expansion to achieve app cloud monitoring
Other attributes	Protective function	Input and output over-voltage protection, anti-reverse protection, etc.
	Working temperature	-20℃~+50℃
	Storage temperature	-40℃~+75℃
	IP protection level	IP43
	Maximum wiring size	50mm <sup>2</sup>
	Net weight (kg)	7.1
	Gross weight (kg)	8.8
	Product size (mm)	420*280*95
	Packing size (mm)	510*368*210

Remarks:

1. The above are the standard parameters of the company;

Accessories

NO.	Quantity	Accessory name
1	1PC	Controller machine (green or blue)
2	2 pc	Mounting ears (for controllers fixed to the wall)
3	8 set	Screw (for hanging ear locks on the controller)
4	1 pc	RJ45 to RS485 cable
5	1 pc	Battery temperature sensing line
6	1 pc	Manual (User Manual)

