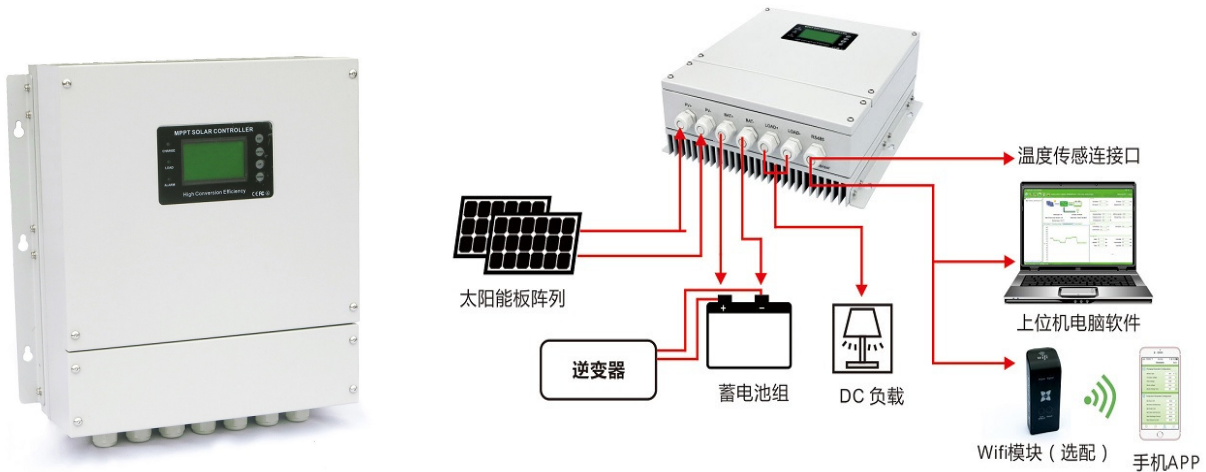


MPPT Solar Charge Controller

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



Characteristics

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 mode: 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. Battery system voltage is automatically recognized.
5. Customers can choose to charge 3 types of commonly used batteries (sealed lead-acid batteries, colloidal lead-acid batteries, open lead-acid batteries), and can customize the parameters 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, and 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 running data and working status of the device, and at the same time support the modification of the display parameters of the controller.

9. RS485 communication, can provide communication protocol, convenient for customers to integrate management and secondary development.

10. Support PC software monitoring, support WIFI module expansion to achieve app cloud monitoring.

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

12. IP67 protection level, can adapt to a variety of complex work environments.

13. The normal warranty period is three years, and it can provide 3~10 years extended warranty service.

TW-MS 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			HD LCD segment code 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	IP67
	Maximum wiring size	50mm ²
	Net weight (kg)	12.8
	Gross weight (kg)	13
	Product size (mm)	500*350*140
	Packing size (mm)	600*448*265

