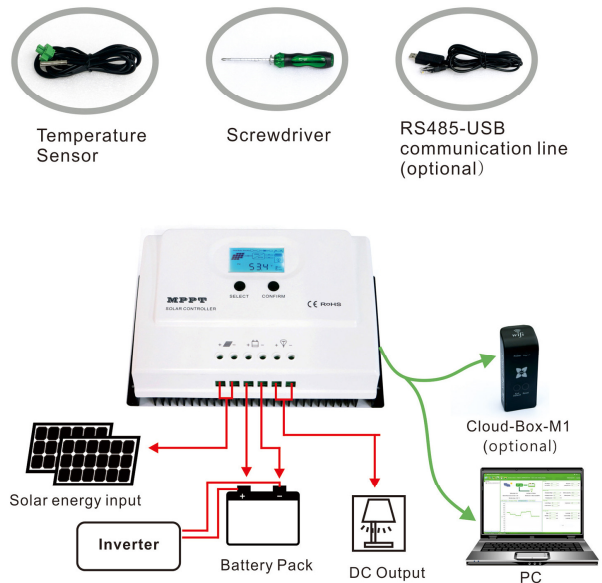


# MPPT Solar Charge Controller

TW-W3 series (12V\24V Auto 15A\20A\30A\40A\50A)



## Features

- ◆ It has an efficient MPPT algorithm, MPPT efficiency  $\geq 99.5\%$ , and converter efficiency up to 98%
- ◆ Charge mode: three stages (constant current, constant voltage, floating charge), it prolongs service life of the batteries.
- ◆ Four types of load mode selection: ON/OFF, PV voltage control, Dual Time control, PV+Time control.
- ◆ Battery system voltage automatic recognition.
- ◆ Three kinds of commonly used lead-acid battery (Seal\Gel\Flooded) parameter settings can be selected by the user, and the user can also customize the parameters for other battery charging.
- ◆ Natural cooling design is adopted to improve the reliability of the product and prolong the service life of the product.
- ◆ The input and output of all kinds of protection functions are complete to protect the system.
- ◆ The use of high strength plastic shell design makes the shape beautiful, and the effective reduction of the product weight can save the transportation cost.
- ◆ Equipped with 5V3A USB dual output power supply function, support mobile phone and tablet charging products etc..
- ◆ It has a current limiting charging function. When the power of PV is too large, the controller automatically keeps the charging power, and the charging current will not exceed the rated value.
- ◆ High definition LCD display function to check the device running data and working status, also can support modify the controller display parameter.
- ◆ RS485 communication, we can offer communication protocol to convenient user's integrated management and secondary development.
- ◆ Support PC software monitoring and WiFi module to realize APP cloud monitoring.
- ◆ CE, RoHS, FCC certifications approved, we can assist clients to pass various certifications.
- ◆ 3 years warranty, and 3~10 years extended warranty service also can be provided.

## Parameter

TW-W3 series			W3-15A	W3-20A	W3-30A	W3-40A	W3-50A
Product category	Controller Properties		MPPT (maximum power point tracking)				
	MPPT efficiency		≥99.5%				
	Standby power		0.5W~1.2W				
	System voltage		Automatic recognition				
	Heat-dissipating method		Self - cooling				
Input Characteristics	Max.PV input voltage(VOC)		DC100V		DC150V		
	Start the charge voltage point		Battery voltage + 3V				
	Low input voltage protection point		Battery voltage + 2V				
	Over voltage protection point		DC100V		DC150V		
	Rated PV power	12V system	195W	260W	390W	520W	650W
		24V system	390W	520W	780W	1040W	1300W
Charge Characteristics	Selectable Battery Types (Default Gel battery)		Sealed lead acid, Gel battery, Flooded (Other types of the batteries also can be defined)				
	Charge rated current		15A	20A	30A	40A	50A
	Charge Method		3-Stage: constant current(fast charging)-constant voltage-floating charge				
LOAD Characteristics	Load voltage		The same as the battery voltage				
	Load rated current		20A		50A		
	Load control mode		On\Off mode, PV voltage control mode, Dual-time control mode, PV + Time control mode				
Display & Communication	Display mode		High-definition LCD segment code backlight display				
	Communication mode		8-pin RJ45 port/RS485/support PC software monitoring/ support WiFi module to realize APP cloud monitoring				
Other Parameters	Protect function		Input-output over \ under voltage protection, Prevention of connection reverse protection,battery shedding protection etc.				
	Operation Temperature		-20℃~+50℃				
	Storage Temperature		-40℃~+75℃				
	IP(Ingress protection)		IP43				
	Max. connection size		12mm²		30mm²		
	Net Weight (kg)		0.83		1.65		
	Gross Weight (kg)		1.02		1.97		
	Product Size (mm)		200*110*68		243*155*80		
	Packing Size(mm)		250*145*105		290*190*113		