

# IP65 Waterproof MPPT solar controller 12V 24V 36V 48V 80A 100A



## Feature

- 1.MPPT charge mode, conversion efficiency up to 99%.
- 2.12V/24V/36V/48V battery system automatic recognition, convenient for customers to use.
- 3.Maximum PV input voltage up to DC150V.
- 4.Support multi - machine parallel to realize system power upgrade
5. 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.
- 6.Discharge mode: ON/OFF mode, double time control mode, PV voltage control mode ,PV voltage+time delay mode and so on .
- 7.Recommended battery types: sealed lead acid, Vented, Gel, NiCd battery. Other types of the batteries can also be defined, such as lithium battery etc.
- 8.RS485 communication, we can offer communication protocol to convenient user's integrated management and secondary development
9. Support PC software monitoring and WiFi module to realize APP cloud monitoring.
- 10.CE,ROHS,FCC certifications approved, other certifications can also be made based on different requirements.
11. 2 years warranty and 2~10 years extended technical service.

## Parameter

MARS series		48BL-80A	48BL-100A	48BH-80A	96BH-50A
Product category	Controller Properties	MPPT (maximum power point tracking)			
	MPPT efficiency	≥99.5%			
	Standby power	0.5W~1.2W			
	System voltage	Automatic recognition		48V	96V
	Heat-dissipating method	Air cooling			

Input Characteristics	Max.PV input voltage(VOC)	DC150V		DC300V		
	Start the charge voltage point	Battery voltage + 3V		Battery voltage + 10V		
	Low input voltage protection point	Battery voltage + 2V		Battery voltage + 5V		
	Over voltage protection point	DC150V		DC300V		
	Rated PV power	12V system	1040W	1300W	□	□
		24V system	2080W	2600W	□	□
36V system		3120W	3900W	□	□	
48V system		4160W	5200W	4160W	□	
96V system		□	□	□	5200W	
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	80A	100A	80A	50A	
	Charging Method	3-Stage: constant current(fast charging)-constant voltage-floating charge				
LOAD Characteristics	Load voltage	The same as the battery voltage				
	Load rated current	80A	100A	80A	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°C~+50°C				
	Storage Temperature	-40°C~+75°C				
	IP(Ingress protection)	IP67				
	Max. connection size	50mm2				
	Net Weight (kg)	12.8				
	Gross Weight (kg)	13				
	Product Size□mm□	500*350*140				
Packing Size(mm)	610*448*265					

Parallel connection diagram

