

IP67 Waterproof MPPT solar controller 12V 24V 36V 48V 80A 100A



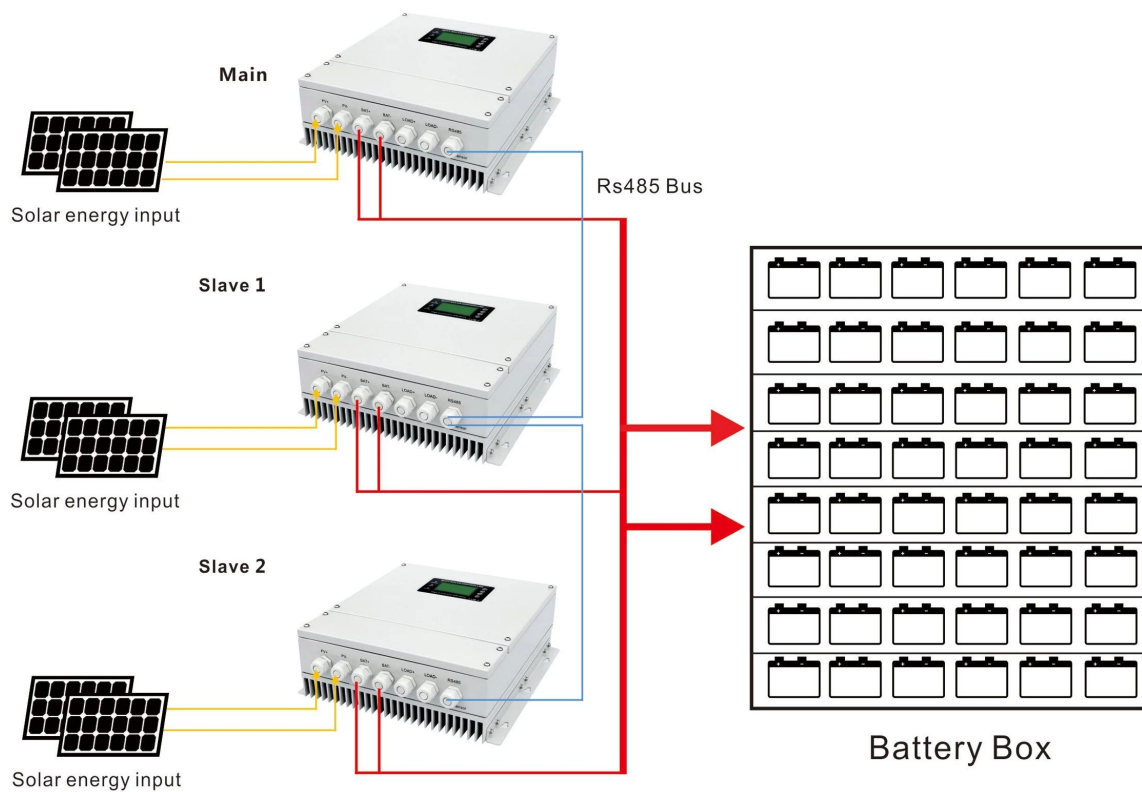
Feature

- 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		MS48L80	MS48L100	MS48H80	MS48H100	MS96H51
MPPT efficiency		≥99.5%				
Standby power		4W~5W				
Heat-Dissipating method		Self cooling				
System voltage		Auto		48V		96V
Input Characteristics						
Max.PV input voltage(Voc)		DC150V		DC300V		
Start-up charging voltage		Real-time battery voltage +3V		Real-time battery voltage10V		
Low input voltage protection		Real-time battery voltage +2V		Real-time battery voltage5V		
Over voltage protection / Recovery		DC150V		DC300V		
Reted PV Power	12V system	1040W	1300W	---	---	---
	24V system	2080W	2600W	---	---	---
	36V system	3120W	3900W	---	---	---
	48V system	4160W	5200W	4160W	5200W	---
	96V system	---	---	---	---	5200W
Charge Characteristics						
Battery types		Sealed(SEL),Gel(GEL),Flooded(FLD),User-defined(USER),Li-ion(LIT)				
Rated charge current		80A	100A	80A	100A	50A
Temperature compensation		-3mV/°C/2V				
Charge method		3 stages: CC (Constant current) - CV (Constant voltage) - CF (Floating charge)				
Output voltage stability accuracy		≤±0.2V				
LOAD Characteristics						
Load voltage		Same as battery voltage				
Rated load current		80A	100A	80A	100A	50A
Load control mode		On/Off , PV voltage control mode, Dual-time control mode, PV + Time control mode				
Low voltage protection		10.5V (default), 11V (restored), settable				
Setting method		PC software / APP / Controller				
Display & Communication						
Display		HD LCD backlight display				
Communication		Dual RJ45 port / RS485 / support PC software monitoring / support WiFi module for APP cloud monitoring / support centralized parallel monitoring				
Other Parameters						
Protections		Input & output over-volt / low-voltage protection, reverse polarity protection, over-heating protection, battery shedding protection etc.				
Operating ambient temperature		-20°C~-50°C				
Storage temperature		-40°C~+70°C				
IP(Ingress protection)		IP65				
Altitude		0~3000m				
Max. Witing size		50mm ²				
N.weight /G.weight (KG)		12.8/13				
Product size /Packing size (mm)		430x350x135/545x475x275				

Parallel connection diagram



System connection diagram

