MPPT 80A 100A <u>Solar Charge Controller</u> 12v 24v 36v 48v for off grid solar system



Feature

- 1.It has an efficient MPPT algorithm, MPPT efficiency ≥99.5% and converter efficiency up to 98%. 2.arge mode: three stages (constant current, constant voltage, floating charge), it prolongs service life of the batteries.
- 3.ur types of load mode selection: ON/OFF, PV voltage control, Dual Time control, PV+Time control.
- 4.ttery system voltage automatic recognition.
- 5.ree kinds of commonly used lead-acid battery (Seal\Gel\Flooded) parameter settings fcan be selected by the user, and the user can also customize the parameters for other battery charging.
- 6. 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.
- 7.pport multi machine parallel to realize system power upgrade.
- 8.gh definition LCD display function to check the device running data and working status, also can support modify the controller display parameter.
- 9.485 communication, we can offer communication protocol to convenient user's integrated management and secondary development.
- 10.port PC software monitoring and WiFi module to realize APP cloud monitoring.
- 11. RoHS, FCC certifications approved, we can assist clients to pass various certifications.
- 12..2 years warranty, and 2~10 years extended warranty service also can be provided.

Parameter

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

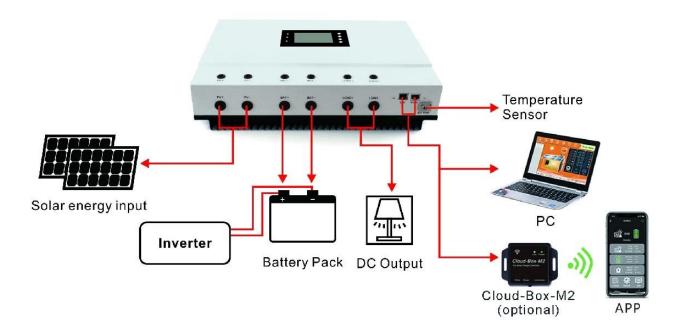
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Input Characteristics	Max.PV input voltage(VOC)		DC150V		DC300V
	Start the charge voltage point		Battery voltage + 3V		Battery voltage + 10V
	Low input voltage protection point		Battery voltage + 2V		Battery voltage + 5V
	Over voltage protection point		DC150V		DC300V
	Rated PV power	12V system	1040W	1300W	
		24V system	2080W	2600W	
		36V system	3120W	3900W	
		48V system	4160W	5200W	4160W
		96V system			
Charge Characteristics	Selectable Battery Types(Default Gel battery)		Sealed lead acid, Gel battery, Flooded (Other types of the batteries also can be defined)		
Characteristics	Charge rate	d current	80A	100A	80A
	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
	Load control mode		On\Off mode, PV voltage control mode, Dual-time control mode, PV + Time control mode		
	Display mode		High-definition LCD segment code backlight display		
Display & Communication	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)	IP43		
	Max. connection size	50mm2		
	Net Weight (kg)	7.1		
	Gross Weight (kg)	8.8		
	Product Size[]mm[]	420*280*95		
	Packing Size(mm)	510*368*210		

Upper Computer Software and Test Software



System connection diagram



Parallel connection diagram

