

off-grid solar system 12V/24V/36V/48V 80A MPPT solar charge controller



Feature

- 1.It has an efficient MPPT algorithm, MPPT efficiency $\geq 99.5\%$ and converter efficiency up to 98%.
- 2.Charge mode: three stages (constant current, constant voltage, floating charge), it prolongs service life of the batteries.
- 3.Four types of load mode selection: ON/OFF, PV voltage control, Dual Time control, PV+Time control .
- 4.Battery system voltage automatic recognition.
- 5.Three 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.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.
- 7.Support multi - machine parallel to realize system power upgrade.
- 8.High definition LCD display function to check the device running data and working status, also can support modify the controller display parameter.
- 9.RS485 communication, we can offer communication protocol to convenient user's integrated management and secondary development.
- 10.Support PC software monitoring and WiFi module to realize APP cloud monitoring.
- 11.CE, 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.

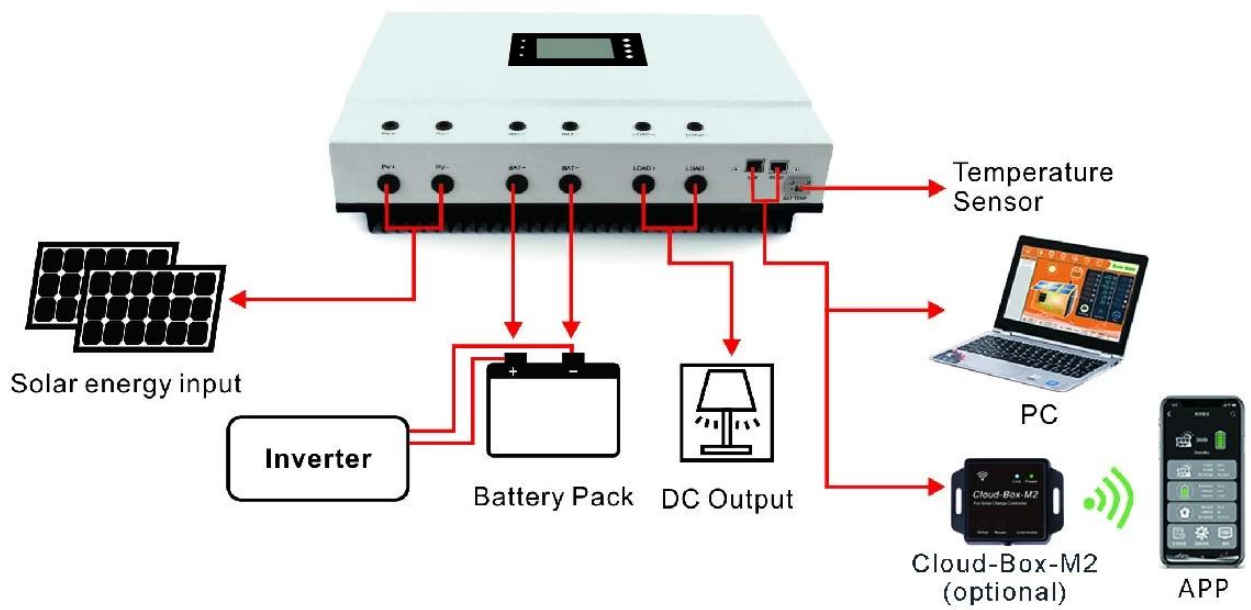
Parameter

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

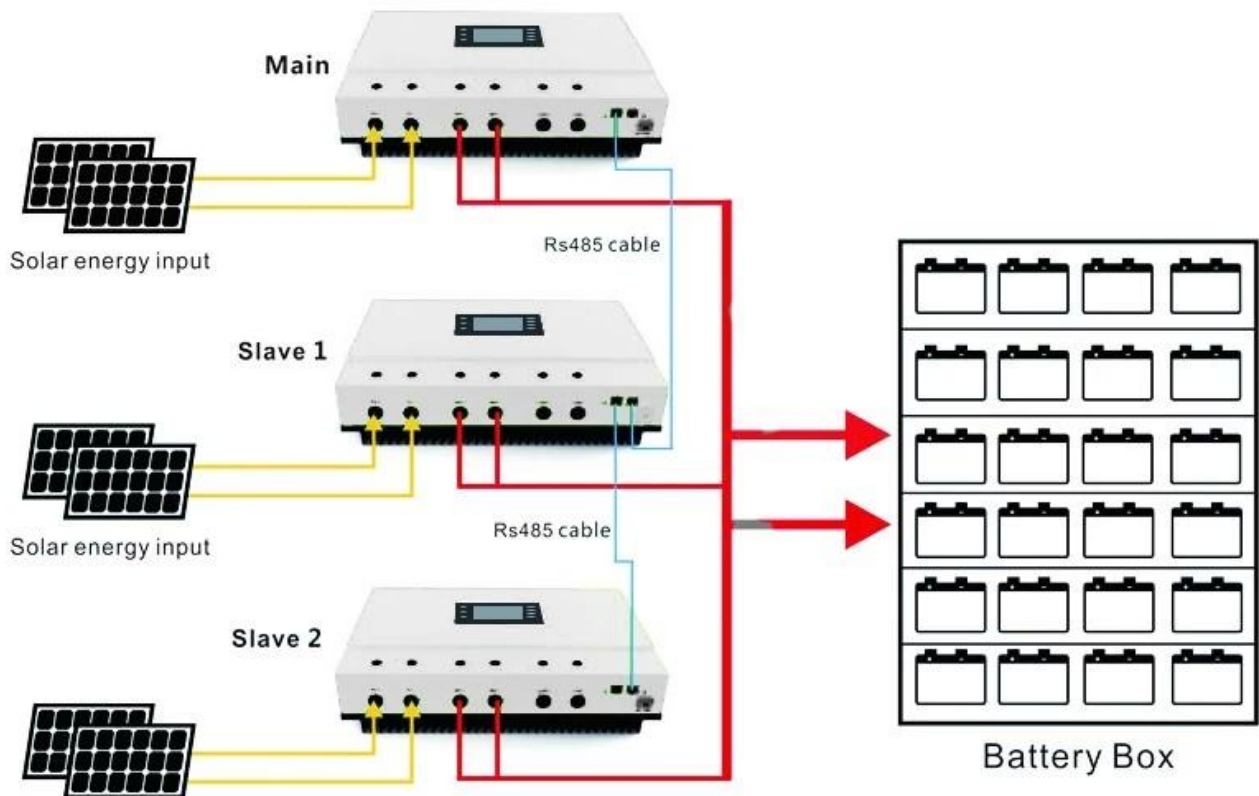
Input Characteristics	Max.PV input voltage(VOC)		DC150V	DC300V
	Start the charge voltage point		Battery voltage + 3V	Battery voltage + 10V
	Low input voltage protection point		Battery voltage + 2V	Battery voltage + 5V
	Over voltage protection point		DC150V	DC300V
	Rated PV power	12V system	1040W	□
		24V system	2080W	□
		36V system	3120W	□
48V system		4160W	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)	
	Charge rated current		80A	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	80A
	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	



System connection diagram



Parallel connection diagram



MASTER MPPT controller won Shanghai 10th(2016) SNEC Fair 10TOP Highlights



Welcome to contact discuss more details