

MASTER 100A MPPT solar regulator, 12V 24V 36V 48V [charge controller](#) 4800W



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 can 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. 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. 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.

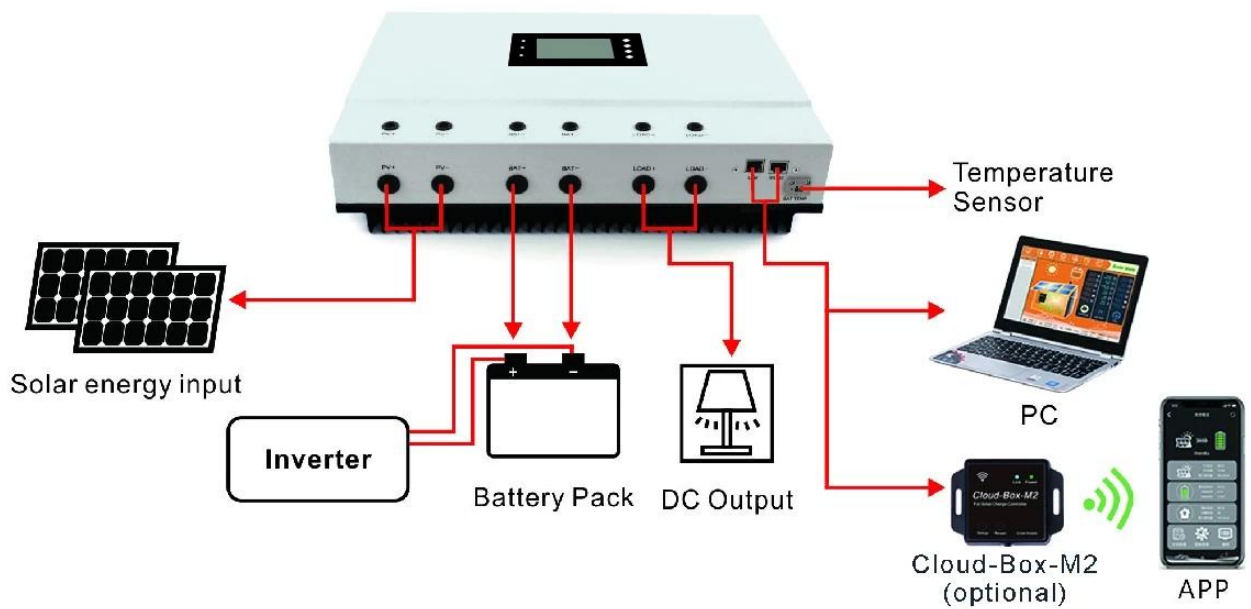
Parameter

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

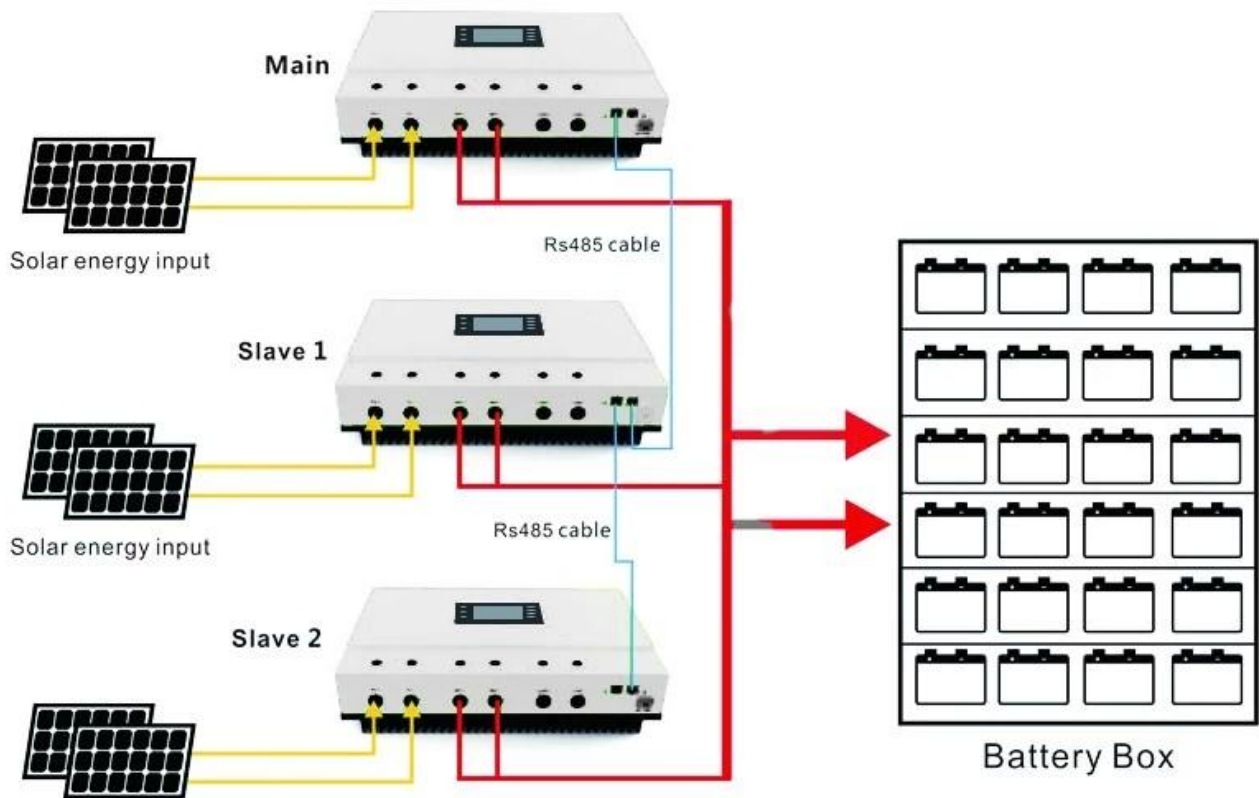
Input Characteristics	Max.PV input voltage(VOC)		DC150V
	Start the charge voltage point		Battery voltage + 3V
	Low input voltage protection point		Battery voltage + 2V
	Over voltage protection point		DC150V
	Rated PV power	12V system	1300W
		24V system	2600W
		36V system	3900W
		48V system	5200W
		96V 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		100A
	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		100A
	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

