solar system controller DC96V MPPT solar charge controller



Feature

- 1.It has an efficient MPPT algorithm, MPPT efficiency ≥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	96BH-50A
Product category	Controller Properties	MPPT (maximum power point tracking)
	MPPT efficiency	≥99.5%
	Standby power	0.5W~1.2W
	System voltage	96V
	Heat-dissipation method	Air cooling

Input Characteristics	Max.PV inp	out voltage(VOC)	DC300V
	Start the charge voltage point		Battery voltage + 10V
	Low input voltage protection point		Battery voltage + 5V
	Over voltage protection point		DC300V
	Rated PV power	12V system	
		24V system	
		36V system	
		48V system	
		96V system	5200W
Charge Characteristics		e Battery Types t Gel battery)	Sealed lead acid, Gel battery, Flooded (Other types of the batteries also can be defined)
	Charge rated current		50A
	Charging Method		3-Stage: constant current(fast charging)-constant voltage-floating charge
LOAD Characteristics	Loa	nd voltage	The same as the battery voltage
	Load r	ated current	50A
	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℃~+50℃
	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

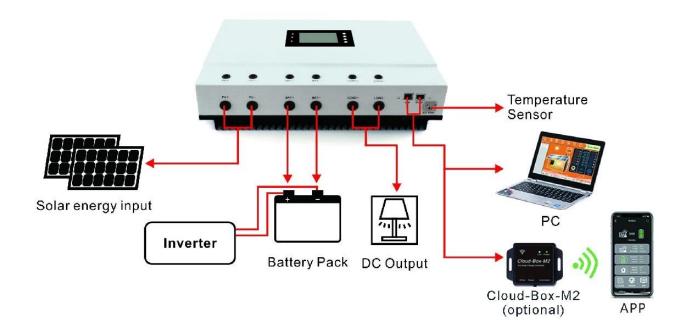
Setting page

Note: All above information is a sample which is the working state of **MASTER** in some time . In different working stage the parameters will change, like working mode , charge current ,charge mode ,charge power and so on ; In the fault mode it will show fault mode ;

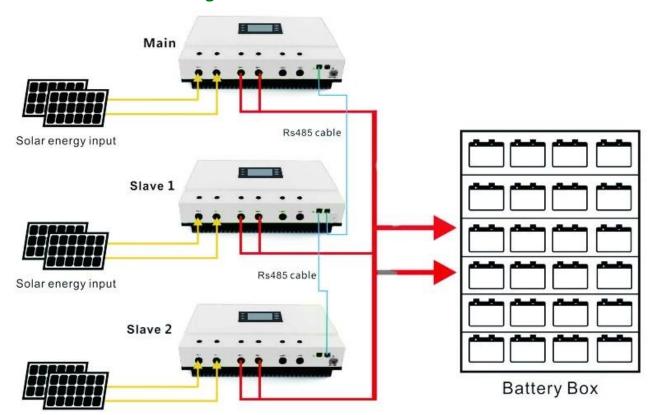
Upper Computer Software and Test Software



System connection diagram



Parallel connection diagram







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

