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

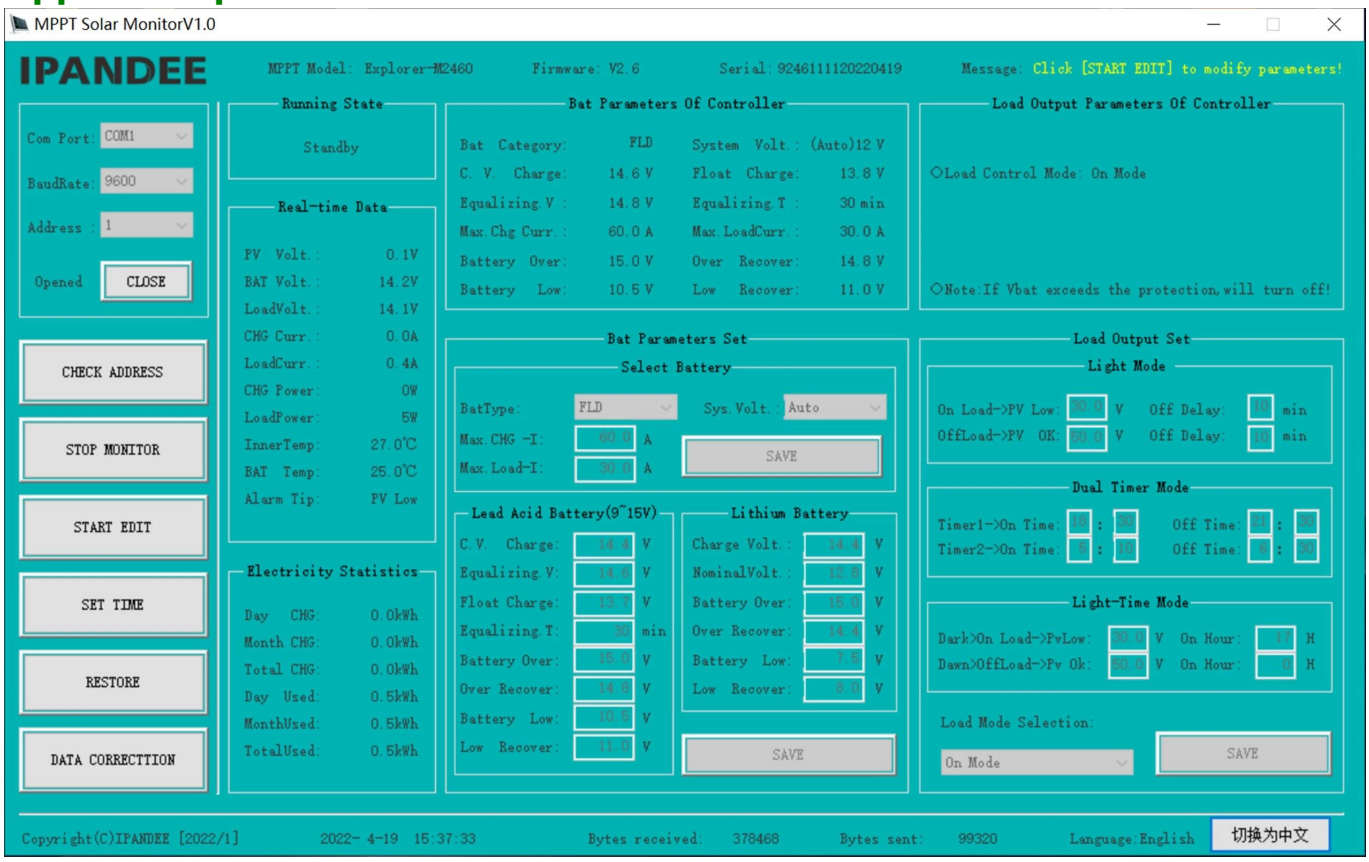
Input Characteristics	Max.PV input voltage(VOC)		DC300V
	Start the charge voltage point		Battery voltage + 10V
	Low input voltage protection point		Battery voltage + 5V
	Over voltage protection point		DC300V
	Rated PV power	12V system	□
		24V system	□
		36V system	□
		48V system	□
		96V system	5200W
Charge Characteristics	Selectable Battery Types (Default 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	Load voltage		The same as the battery voltage
	Load rated current		50A
	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

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℃~+75℃
	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

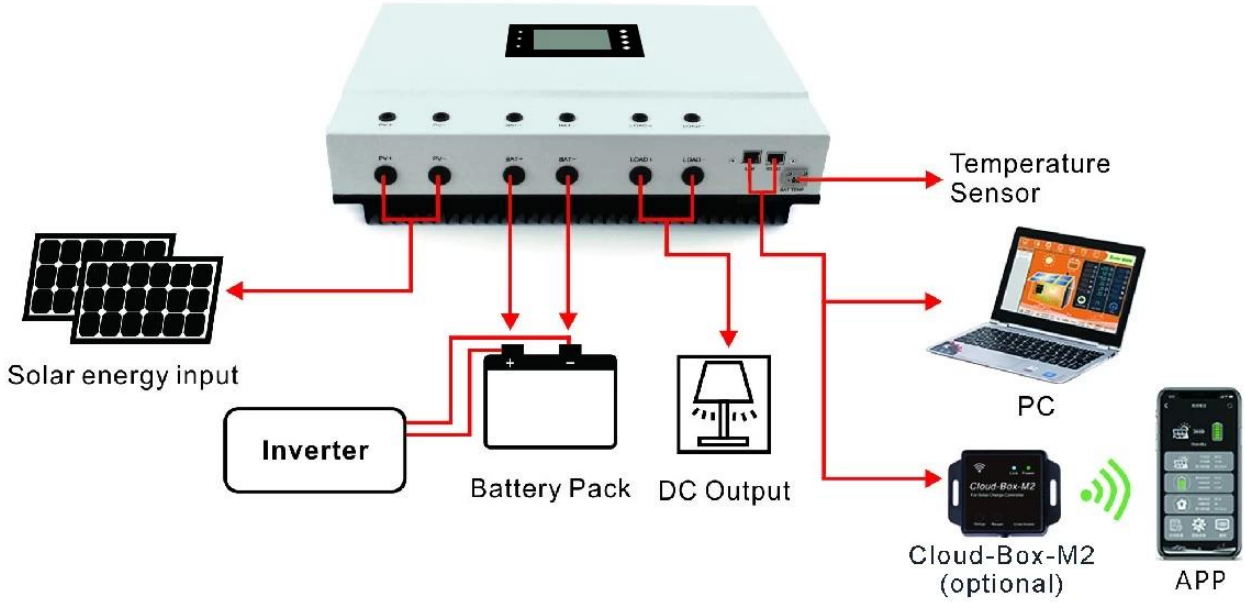
Setting page

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 ;

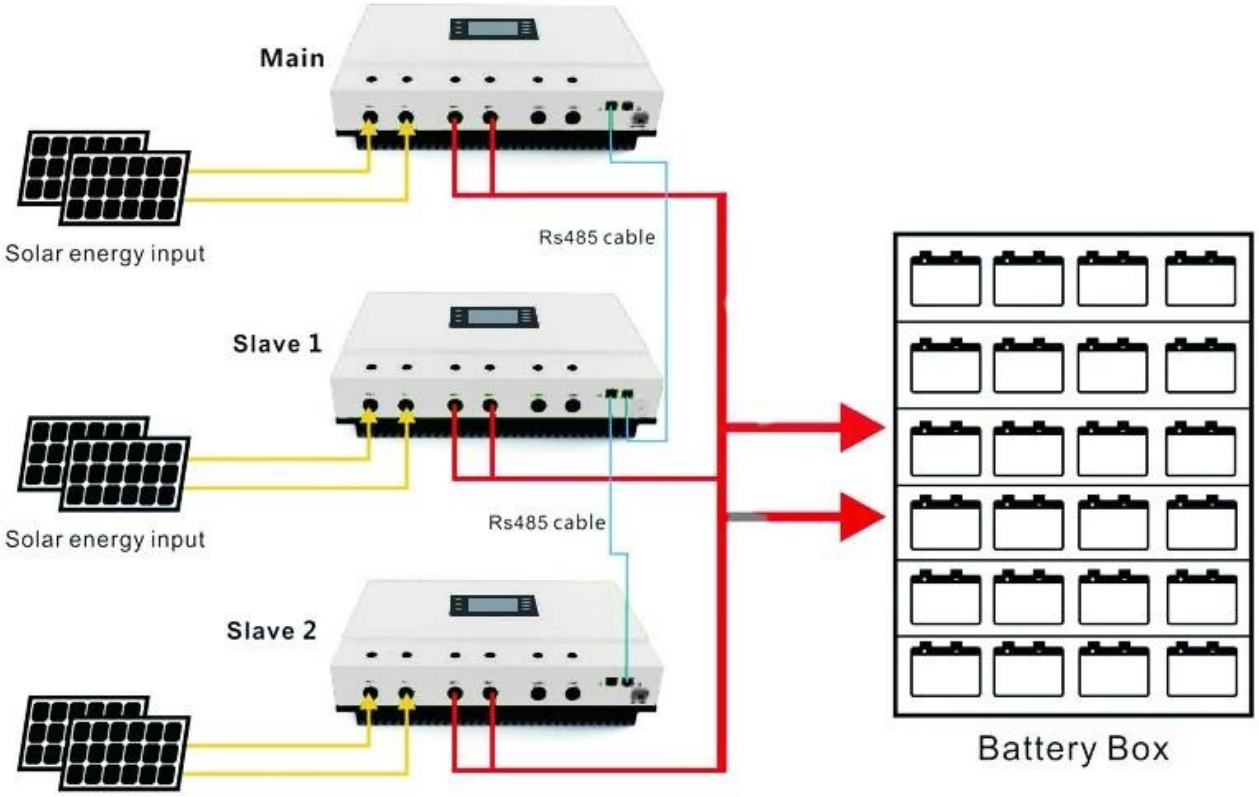
Upper Computer Software and Test Software



System connection diagram



Parallel connection diagram



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