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.
12.3 years warranty, and 3~10 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		

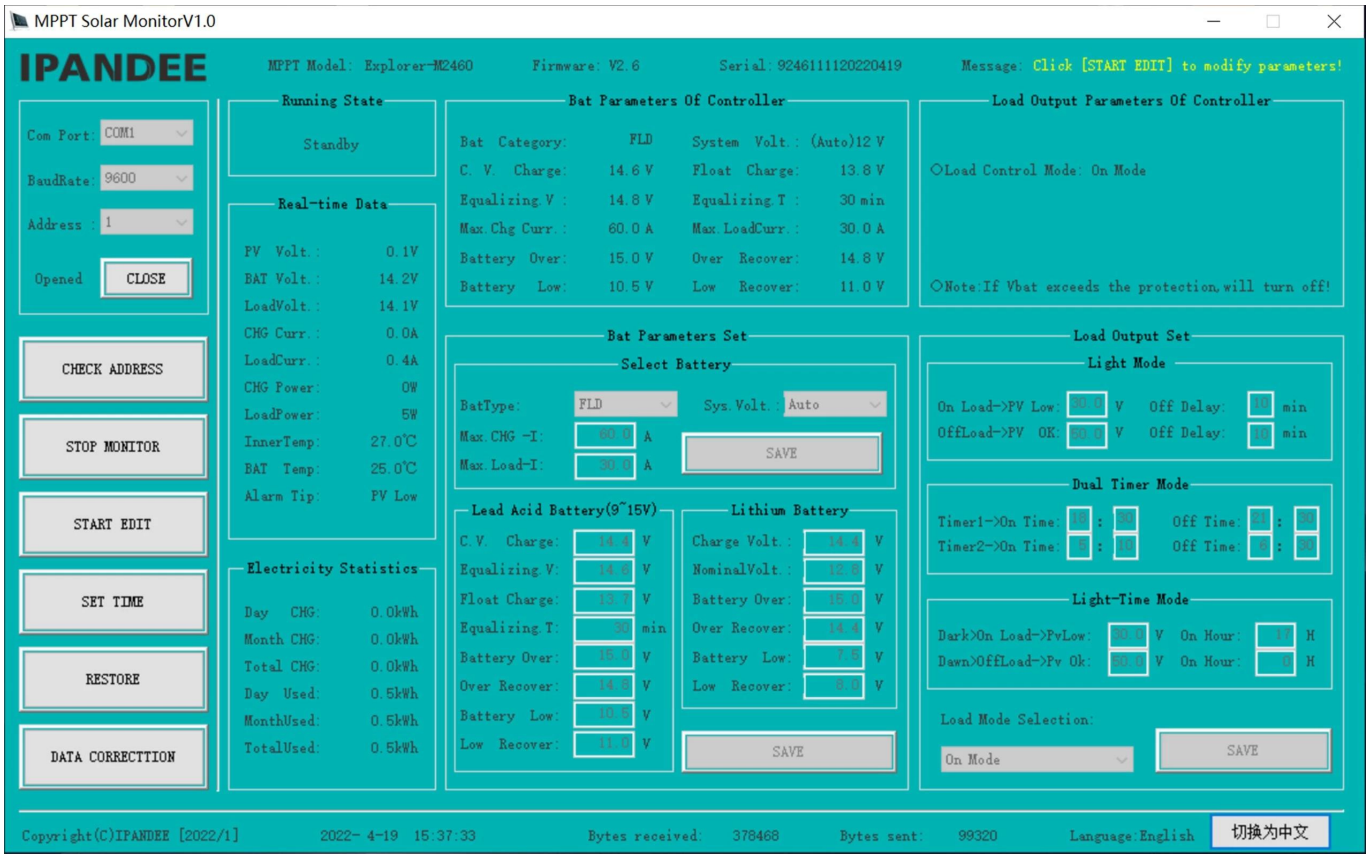
Input Characteristics	Max.PV input voltage(VOC)		DC150V		DC300V
	Start the charge voltage point		Battery voltage + 3V		Battery voltage + 10V
	Low input voltage protection point		Battery voltage + 2V		Battery voltage + 5V
	Over voltage protection point		DC150V		DC300V
	Rated PV power	12V system	1040W	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)		
	Charge rated 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 & 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

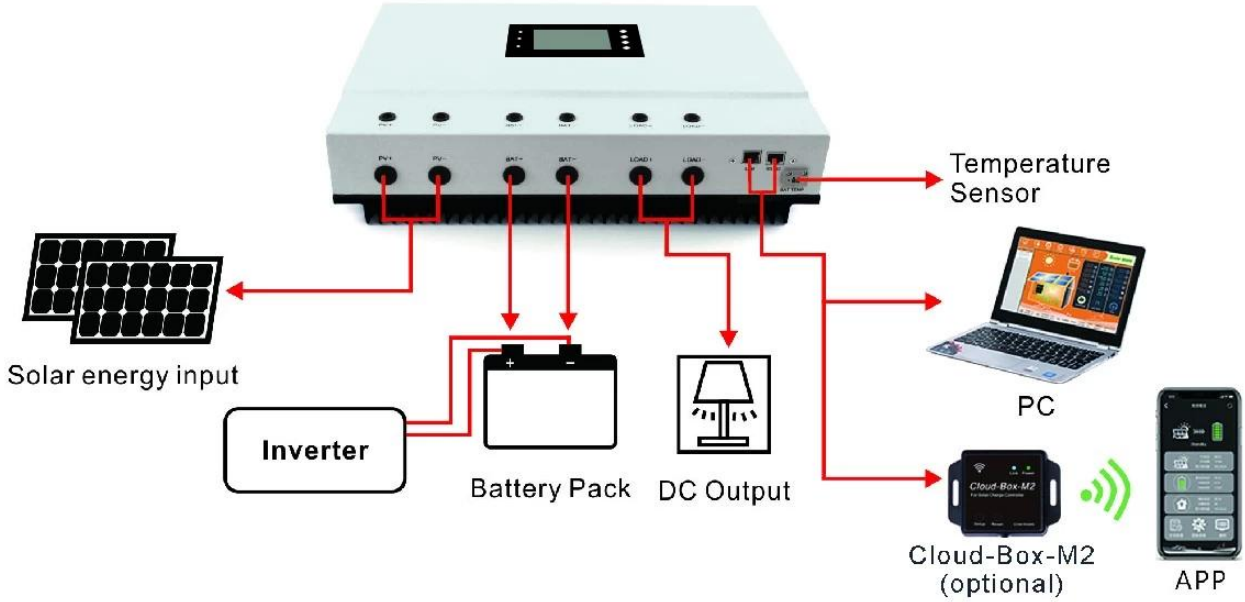
Setting page

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 ;

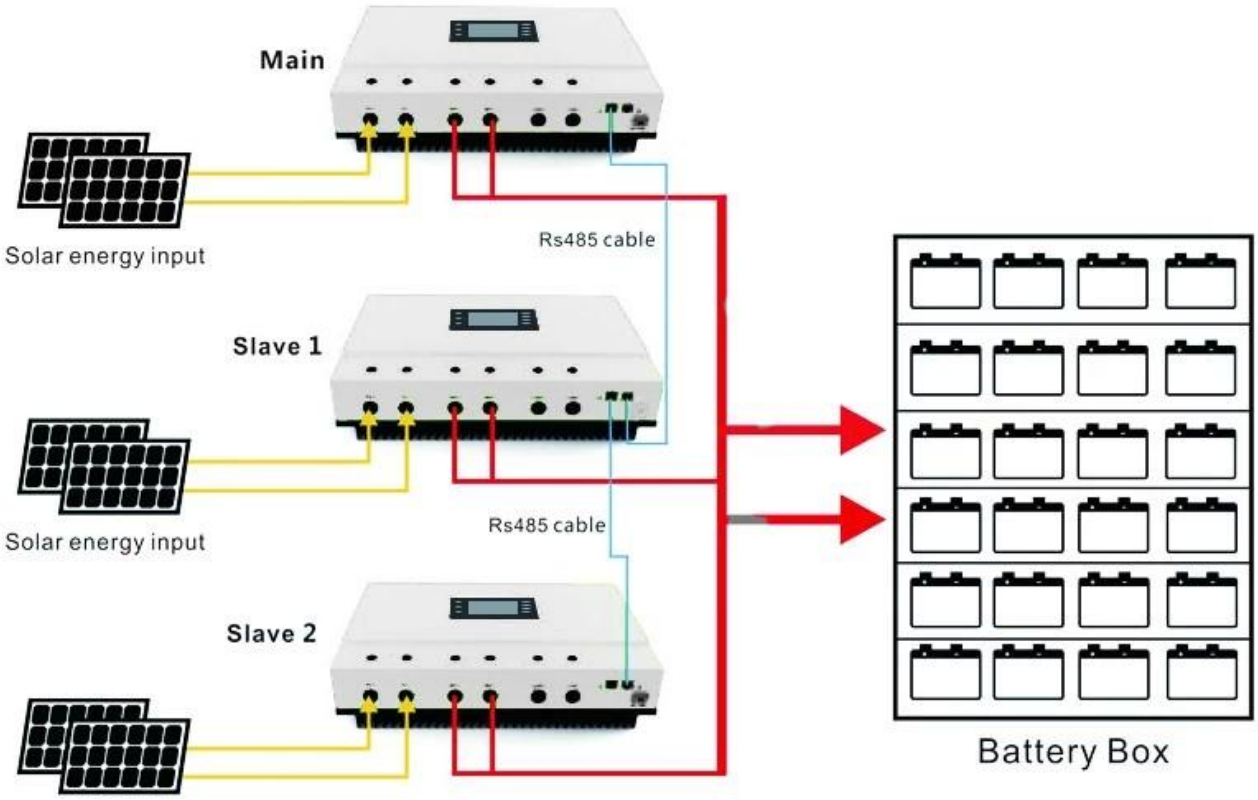
Upper Computer Software and Test Software



System connection diagram



System connection diagram



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

SNEC 第十届(2016)国际太阳能产业及光伏工程(上海)展览会暨论坛
10th (2016) International Photovoltaic Power Generation Conference & Exhibition
十大亮点发布

"十大亮点"
荣誉证书
iPaide

荣誉证书
深圳市爱庞德新能源科技有限公司：
经组委会"十大亮点评选"专家组认定，贵公司亮点"100A MPPT
太阳能充电控制器"获得本届"SNEC展会"吉瓦级金奖。
特颁此证，以致贺忱并赏纪念。
2016年5月

十大亮点发布

Welcome to contact discuss more details: