## solar system controller 12V/24V/36V48V 80A MPPT solar charge controller



### **Feature**

- 1.MPPT charge mode, conversion efficiency up to 99%.
- 2.12V/24V/36V/48V battery system automatic recognition, convenient for customers to use.
- 3.Maximum PV input voltage up to DC150V.
- 4. Controllers can be connected in unlimited parallels.
- 5.Charge mode: three stages (fast charge ,constant charge ,floating charge). To extend the life span of the battery
- 6.Discharge mode: ON/OFF mode, double time control mode, PV voltage control mode ,PV voltage+time delay mode and so on .
- 7.Recommended battery types: sealed lead acid, Vented, Gel, NiCd battery. Other types of the batteries can also be defined, such as lithium battery etc.
- 8.CE,ROHS,FCC certifications approved, other certifications can also be made based on different requirements.
- 9. 2 years warranty and 2~10 years extended technical service.

### **Parameter**

Solar charging controller 2023-2024 V3.3



# **MASTER**

# **MPPT**

Solar charging controller

CE FE ROHS





# High efficiency

MPPT efficiency 99.5%



# Stable operation

- · Natural cooling and air cooling can be customized
- · Support parallel connection



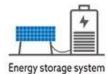
## Intelligent compatibility

- · Support man-machine interaction
- · Support 150Vdc, 300Vdc PV input voltage
- · Support remote monitoring of PC and APP
- · Support dual RS485 communication
- · Multiple protection functions, overvoltage and overcurrent, etc









Off grid power system

Solar Engineering

Base station

Building A2, Lilang International Jewelry Park, No. 31, Bulan Road, Nanwan Street, Longgang District, Shenzhen



Master seri	es	M48L80	M48L100	M48L100Pro	M48L120	M48H80	M48H100	M48H120	M96H50
MPPT efficiency		≥99.5%							
Standby power consumption		4W~5W							
Heat-Dissipating method		Natural	cooling	Natural cooling+Air cooling		Natural cooling	Natural cooling+Air cooling		Natural cooling
System voltage		12V/24V/36V/48V Auto				48V		96V	
Input Ch	aracteristics								
Max.PV input voltage(Voc)		150VDC				300VDC			
Start-up charging voltage		Real-time battery voltage +3V				Real-time battery voltage +10V			
Low input voltage protection		Real-time battery voltage +2V				Real-time battery voltage +5V			
Over voltage protection / Recovery		150VDC				300VDC			
Reted PV Power	12V system	1040W	1300W	1300W	1560W	2000			
	24V system	2080W	2600W	2600W	3120W				
	36V system	3120W	3900W	3900W	4680W				-
	48V system	4160W	5200W	5200W	6240W	4160W	5200W	6240W	
	96V system	_	_		_				5200W
Charge (	Characteristics								
Battery type	s		Sealed	(SEL),Gel(GE	L),Flooded	(FLD),Use	r-defined(l	JSER),Li-ior	(LIT)
Rated charge current		80A	100A	100A	120A	80A	100A	120A	50A
Temperature compensation		-3mV/°C/2V							
Charge method		3 stages: CC (Constant current) - CV (Constant voltage) - CF (Floating charge)							
Output voltag	e stability accuracy				≤	≤±0.2V			
LOAD CH	haracteristics								
Load voltage		Same as battery voltage							
Rated load current		80A	100A	100A	120A	80A	100A	120A	50A
Load control mode		On/Off, PV voltage control mode, Dual-time control mode, PV + Time control mode							
Low voltage protection		10.5V (default), 11V (restored), settable(9V-15V)							
Setting method		PC software / APP / Controller							
Display &	Communication								
Display					HD LCD ba	cklight dis	play		
Communication		Dual RJ45 port / RS485 / support PC software monitoring / support WiFi module for APP cloud monitoring / support centralized parallel monitoring							
Other Pa	arameters		module re	THE CLOUD	ionitoring /	заррогесс	mediace po	rattet mome	,,,,, <sub>D</sub>
Otherre	nameters.	1	nnut & out	nut over-volt	/ low-voltag	e protectio	n reverse n	olarity prote	ction
Protections		Input & output over-volt / low-voltage protection, reverse polarity protection, over-heating protection, battery shedding protection etc.							
Operating ambient temperature		-20°C~+50°C							
Storage temperature		-40°C~+70°C							
IP(Ingress protection)		IP31							
Altitude						3000m			
Max. Witing	size					0mm²			
N.weight /G.weight (KG)		7.4	/9	12/1		7.4/9	12/	13.4	7.4/9
Product size /Packing size (mm)			0x110/	470x32		420x280x110		0x128/	1.4/3