



Master series

- ✧ MPPT efficiency $\geq 99.5\%$
- ✧ High definition LCD display
- ✧ Suitable for all kinds of batteries
- ✧ Support remote monitoring of PC and APP
- ✧ Support dual RS485 communication
- ✧ Self-heating & IP43 high waterproof level
- ✧ Support parallel connection
- ✧ CE/Rohs/FCC certifications approved
- ✧ Multiple protection functions, overvoltage and overcurrent, etc



**Focus on the MPPT Solar Controller
More Professional, More Reliable**

Applicable scenarios



Off grid power system



communication
base station



Energy storage system

Product Size

Master Series		M48L80	M48L100	M48H80	M96H50
Product Category					
MPPT efficiency		≥99.5%			
Standby power		——			
Heat-Dissipating method		Self cooling			
System voltage		Auto		48V	96V
Input Characteristics					
Max.PV input voltage(Voc)		DC150V		DC300V	
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		DC150V		DC300V	
Reted PV Power	12V system	1040W	1300W	——	——
	24V system	2080W	2600W	——	——
	36V system	3120W	3900W	——	——
	48V system	4160W	5200W	4160W	——
	96V system	——	——	——	5200W
Charge Characteristics					
Battery types		Sealed(SEL),Gel(GEL),Flooded(FLD),User-defined(USER),Li-ion(LIT)			
Rated charge current		80A	100A	80	50A
Temperature compensation		-3mV/°C/2V			
Charge method		3 stages: CC (Constant current) - CV (Constant voltage) - CF (Floating charge)			
Output voltage stability accuracy		≤±0.2V			
LOAD Characteristics					
Load voltage		Same as battery voltage			
Rated load current		80A	100A	80	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			
Setting method		PC software / APP / Controller			
Display & Communication					
Display		HD LCD backlight display			
Communication		Dual RJ45 port / RS485 / support PC software monitoring / support WiFi module for APP cloud monitoring / support centralized parallel monitoring			
Other Parameters					
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~+75°C			
IP(Ingress protection)		IP43			
Altitude		0~3000m			
Max. Witing size		50mm²			
N.weight /G.weight (KG)		7.1/8.8			
Product size /Packing size (mm)		420x280x95/510x368x210			