



Mars 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 & IP65 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



Solar powered yacht

Product Size

Mars Series		MS48L80	MS48L100	MS48H80	MS48H100	MS96H51
Product Category						
MPPT efficiency		≥99.5%				
Standby power		——				
Heat-Dissipating method		Self cooling				
System voltage		Auto		48V	48V	96V
Input Characteristics						
Max.PV input voltage(Voc)		DC150V		DC300V		
Start-up charging voltage		Real-time battery voltage +3V		Real-time battery voltage10V		
Low input voltage protection		Real-time battery voltage +2V		Real-time battery voltage5V		
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	5200W	——
	96V system	——	——	——	——	5200W
Charge Characteristics						
Battery types		Sealed(SEL),Gel(GEL),Flooded(FLD),User-defined(USER),Li-ion(LIT)				
Rated charge current		80A	100A	80A	100A	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	80A	100A	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)		IP65				
Altitude		0~3000m				
Max. Witing size		50mm²				
N.weight /G.weight (KG)		12.8/13				
Product size /Packing size (mm)		500x350x140/600x448x265				
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