

MARS Series

MPPT

Solar charging controller

CE FC RoHS



High efficiency

- MPPT efficiency 99.5%



Stable operation

- Self-heating & IP65 high waterproof level
- 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

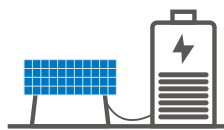
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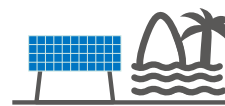
Off grid power system



Base station



Energy storage system



Solar powered yacht

Mars Series		MS48L80	MS48L100	MS48H80	MS48H100	MS96H51
MPPT efficiency		≥99.5%				
Standby power		4W~5W				
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 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~+70°C				
IP(Ingress protection)		IP65				
Altitude		0~3000m				
Max. Witing size		50mm ²				
N.weight /G.weight (KG)		12.8/13				
Product size /Packing size (mm)		430x350x135/545x475x275				