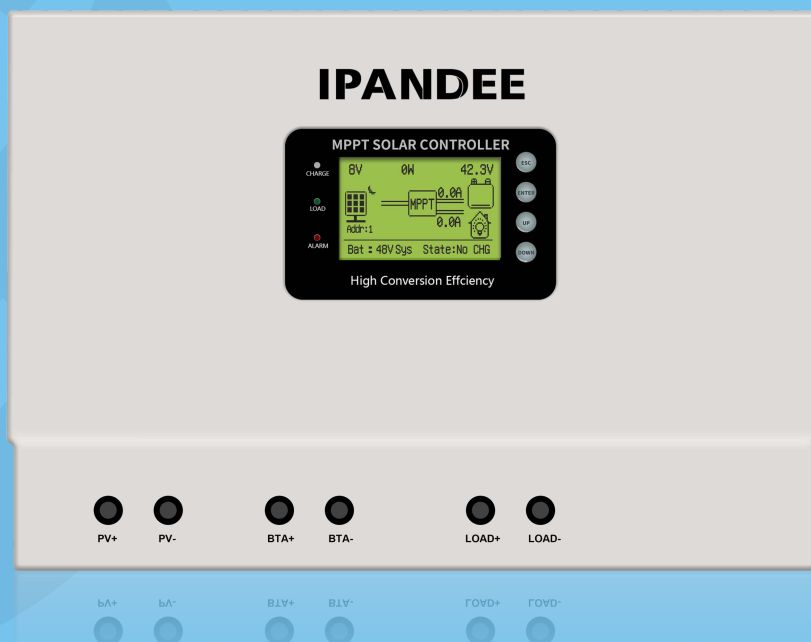


MASTER

MPPT

Solar charging controller

CE FC RoHS



High efficiency

- MPPT efficiency 99.5%



Stable operation

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



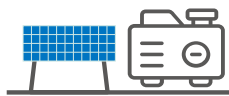
Intelligent compatibility

- 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

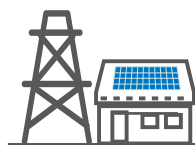
首选



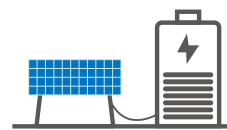
Off grid power system



Solar Engineering



Base station



Energy storage system

Master series		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 Characteristics									
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	—	—	—	—
	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 types		Sealed(SEL),Gel(GEL),Flooded(FLD),User-defined(USER),Li-ion(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 voltage stability accuracy		≤±0.2V							
LOAD Characteristics									
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 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℃~+50℃							
Storage temperature		-40℃~+70℃							
IP(Ingress protection)		IP31							
Altitude		0~3000m							
Max. Witing size		50mm²							
N.weight /G.weight (KG)		7.4 / 9		12/13.4		7.4 / 9		12/13.4	
Product size /Packing size (mm)		420x280x110 / 510x368x225		470x320x128 / 610x450x265		420x280x110 / 510x368x225		470x320x128 / 610x450x265	