

Wonder1 MPPT Solar Charge Controller (50A/100A)

Feature :

- Advanced MPPT tracking, 99% tracking efficiency. Compared with PWM, the generating efficiency increase near 20%
- ◊ LCD display PV data and chart simulates power generation process
- ◊ Wide PV input voltage range, convenient for system configuration
- Intelligent battery management function, extend battery life
- RS485 communication port optional



Product Parameters

Model: Wonder1	96/50 (50)	96/100 (100)	192/50, 216/50, 240/50, 384/50 (50)	192/100, 216/100, 240/100, 384/100
Rated Current	50A	100A	50A	100A
Rated System Voltage	96V	96V	192V/216V/240V	384V
Max PV Input Voltage(Voc) (At the lowest ambient temperature)	300V(96V system) / 450V(192V/216V system) / 500V(240V system) / 800V(384V system)			
PV array Max power	5.6KW	5.6KW*2	11.2KW/12.6KW/14KW/22.4KW	11.2KW*2/12.6KW*2/14KW*2/22.4KW*2
MPPT Tracking Voltage Range	120V~240V(96V system) / 240V/270V~360V(192V/216V system) / 300V~400V (240V system) /480V~640V(384V system)			
MPPT route number	1	2	1	2
Recommended operating voltage range	20V-160V(96V system); 240V-320V(192V system); 270V-320V(216V system); 300V-350V(240V system); 480V-560V(384V system)			
Battery Type	Lead acid battery, deep cycle battery, gel battery etc(Battery type base on user charge specification)			
Floating Voltage	110.4V/220.8V/248.4V/276V/441.6V			
Charge Voltage	113.6V/227.2V/255.6V/284V/454.4V			
Charging Protection Voltage	120V/240V/270V/300V/480V			
Promote recovery voltage	105.6V/211.2V/237.6V/264V/422.4V			
Temperature Compensation	-3mV / °C / 2V (25°C is base line) (Optional)			
Charging Mode	MPPT maximum power point tracking			
Charging Method	Three stages: constant current(MPPT); constant voltage; floating charge			
Protection	Over-voltage/under-voltage/over-temperature/PV&Battery anti-reverse protection			
Conversion Efficiency	> 98%			
MPPT Tracking Efficiency	> 99%			
Machine Size(L*W*Hmm)	315*250*108		460*330*140	530*410*162
Package Size(L*W*Hmm)	365*310*164(1PC) / 376*321*343(2PCS)		509*405*215	598*487*239
N.W(kg)	4.5(1PC)	5.6(1PC)	13.5	15
G.W.(kg)	5.2(1PC)	6.3(1PC)	15	16.5

系统参数

Display	LCD
Thermal Method	Cooling fan in intelligent control
Type Of Mechanical Protection	IP20
Operating Temperature	-15°C~+50°C
Storage Temperature	-20°C~+60°C
Elevation	<5000m(Dreating above 2000m)
Humidity	5%~95%(No condensation)
Communication	RS485/APP (WIFI monitoring or GPRS monitoring)

Note: All specifications are subject to change without prior notice