



MPPT SERIES

Wonder1 SOLAR CHARGE CONTROLLER

10A-100A



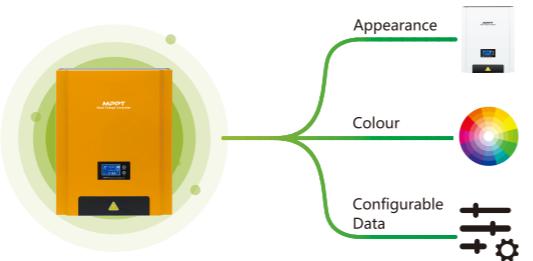
Max PV Power
Tracking

Smart battery
management

Full protection

Note: The current product is shipped in yellow. After the yellow inventory is depleted, it will gradually transition to the white version.

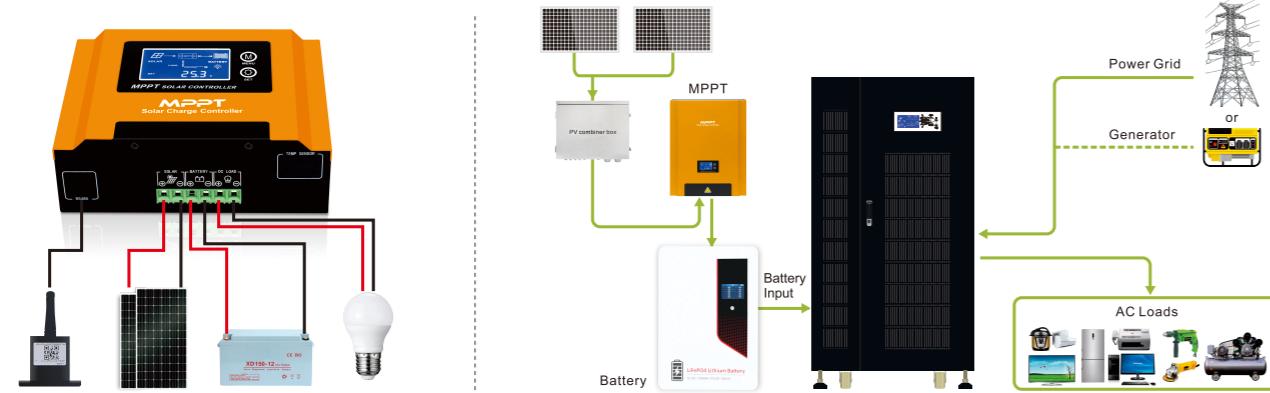
OEM/ODM



Features

- 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, convenient for user Integration management.
- Multiple working modes to adapt different working occasion (only supported on 12V / 24V / 48V models).
- 12V/24V/48V automatic recognition, users are more flexible and convenient to use.

Product Display



MPPT Solar Charge Controller 10A-100A(12V/24V48V) 50A/100A(96V~384V)

Technical Parameters

Model: Wonder1	W1-10/20/30	W1-40/50/60	W1-80/100	W1-50	W1-100
Current/Voltage					
Rated Current	10A/20A/30A	40A/50A/60A	80A/100A	50A	100A
Rated System Voltage	12V/24V/48VAuto Recognition	96V	192V/216V/240V	384V	96V 192V/216V/240V 384V
PV Input					
Max PV Input Voltage (Voc) (At The Lowest Temperature)	150V	96V system:300V ; 192V/216V system:450V ; 240V system:500V ; 384V system:800V			
MPPT Tracking Voltage Range	12V system(15V-120V); 24V system(30V-120V); 48V system(60V-120V)	96V system(120V-240V) ; 192V/216V system(240V/270V-360V) ; 240V system(300V-400V) ; 384V system(480V-640V)			
PV Array Max Power	12V system: 140W(10A)/280W(20A)/420W(30A)/560W(40A)/700W(50A) /840W(60A)/1120W(80A)/1400W(100A) ; 24V system: 280W(10A)/560W(20A)/840W(30A)/1120W(40A)/1400W (50A)/1680W(60A)/2240W(80A)/2800W(100A) ; 48V system: 560W(10A)/1120W(20A)/1680W(30A)/2240W(40A)/2800W (50A)/3360W(60A)/4480W(80A)/5600W(100A)	5.6KW	11.2KW/12.6KW/ 14KW/22.4KW	5.6KW*2	11.2KW/12.6KW/ 14KW/22.4KW*2
Battery					
Battery Type	Lead-acid batteryCustom battery				
Floating Charge Voltage	13.8V/Single battery	96V system:110.4V ; 192V system:220.8V ; 216V system:248.4V ; 240V system:276V ; 384V system:441.6V			
Equalized Charging Voltage	14.2V/Single battery	96V system:113.6V ; 192V system:227.2V ; 216V system:255.6V ; 240V system:284V ; 384V system:454.4V			
Charging Protection Voltage	15V/Single battery	96V system:120V ; 192V system:240V ; 216V system:270V ; 240V system:300V ; 384V system:480V			
Protection	over-voltage/under-voltage/over-temperature/PV&Battery anti-reverse protection etc.				
Communication	RS485/APP (WiFi or GPRS monitoring)				
Other					
MPPT Tracking Efficiency	>99%				
Display	LCD				
Protection Degree	IP20				
Cooling Method	Cooling fan in intelligent control				
Operating Temperature	-15°C~50°C				
Elevation	2000m(more than derating)				
Relative Humidity	5~95%(No condensation)				
Dimensions and Weight					
Machine Size(L*W*Hmm)	185*135*65	240*143*74	280*180*100	315*250*108	460*330*140
Package Size(L*W*Hmm)	235*185*116 (1pc) 383*249*246 (4pcs)	290*203*126 (1pc) 419*304*266 (4pcs)	330*240*153 (1pc) 487*345*166 (2pcs)	356*296*147 (1pc) 365*305*303 (2pcs)	509*405*215
N.W.(kg)	1.15	1.8	3.7	4.5	13.5
G.W.(kg)	1.35	2	4	5.2	15
	6.3	16.5	24.6	28.5	22.6
	5.6	15	22.6	28.5	

Note: 1. Specifications are subject to change without prior notice;

2. Special voltage and power requirements can be customized according to the actual situation of users.