

MW PWM Solar Charge Controller (10A-200A)

Feature :

- ❖ LCD display PV charge, battery and DC loading condition;
- ❖ Protection against over charge, over discharge, over load and anti-thunder;
- ❖ PWM charging mode, DC mode save cost



System Application Diagram



MW PWM Controller Specification

Rated Current	10A/20A/30	40A/50A/60A
Rated System Voltage	12V/24V auto recognition; 48V	
PV Input Voltage Range	12V System: 15V-44V; 24V System: 30V-44V; 48V System: 60V-88V	
Max PV Input Voltage(At25°C)	12V/24V System: 50V; 48V System: 100V	
PV Array Maximum Power	12V System: 140W/280W/420W/560W/700W/840W; 24V System: 280W/560W/840W/1120W/1400W/1680W; 48V System: 560W/1120W/1680W/2240W/2800W/3360W	
Battery Type	Lead acid battery, deep cycle battery, gel battery etc(Battery type base on user charge specification)	
Floating Voltage	13.8V Single battery	
Charge Voltage	14.2V Single battery	
Charging Protection Voltage	17V Single battery	
Battery Overdischarge Voltage	10.5V Single battery	
Charging Mode	PWM Pulse width control	
Charging Method	Three stages: constant current; constant voltage; floating charge	
No Load Loss	<5mA	
Charging Circuit Voltage Drop	<0.2V	
Discharge Loop Voltage Drop	<0.15V	
Display	LCD	
Thermal method	Natural heat dissipation	
Type of mechanical protection	IP20	
Operating temperature	-10°C~+40°C	
Storage temperature	-20°C~+60°C	
Elevation	< 5000m(Less solar panel when exceed 2000m)	
Humidity	5%~95%(No condensation)	
Protect The Circuit	Over-charge, over-discharge, short circuit and over-load protection	
Machine Size(L*W*Hmm)	125*80*25	185*107*55
Package Size (l*W*Hmm)	133*35*87	195*59*114
N.W(kg)	0.34	0.64
G.W.(kg)(Carton Packing)	0.39	0.72

MW PWM Controller Specification

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Rated Current	50A	100A	50A	100A	150A	200A
Rated System Voltage	96V/192V	96V	384V	192V/216V/240V/384V		
PV Input Voltage Range	96V System: 120V-176V; 192V System: 240V-352V; 216V System: 270V-396V; 240V System: 300V-440V; 384V System: 480V-704V					
Max PV Input Voltage(At 25°C)	96V System: 200V; 192V System: 400V; 216V System: 450V; 240V System: 500V; 384V System: 750V					
PV Array Input Number	1		1		2	
PV Array Maximum Power	5.6KW/11.2KW	11.2KW	22.4KW	22.4KW/25.2KW/ 28KW/44.8KW	16.8KW*2/18.9KW*2/ 21KW*2/33.6KW*2	22.4KW*2/25.2KW*2/ 28KW*2/44.8 KW *2
Battery Type	Lead acid battery, deep cycle battery, gel battery etc(Battery type base on user charge specification)					
Floating Voltage	13.8V Single battery					
Charge Voltage	14.2V Single battery					
Charging Protection Voltage	15V Single battery					
Temperature Compensation Coefficient	-3mV/°C/2V(25°Cis base line) (Optional)					
Charging Mode	PWM Pulse width control					
Charging Method	Three stages: constant current; constant voltage; floating charge					
Conversion efficiency	>95%					
Display	LCD					
Thermal method	Cooling fan in intelligent control					
Type of mechanical protection	IP20					
Operating temperature	-20°C~ + 60°C					
Storage temperature	-20°C~+70°C					
Elevation	< 5000m(Less solar panel when exceed 2000m)					
Humidity	5%~95%(No condensation)					
Communication	RS232/RS485(Optional)					
Machine Size(L*W*Hmm)	340*300*140		460*360*160		500*330*800	
Package Size (L*W*Hmm)	400*350*190		520*410*210		560*390*855	
N.W(kg)	5	6	9	10	32	33
G.W.(kg)(Carton Packing)	6	7	11	12	37	38

Note: Specifications are subject to change without prior notice.