

PWM Solar Charge controller

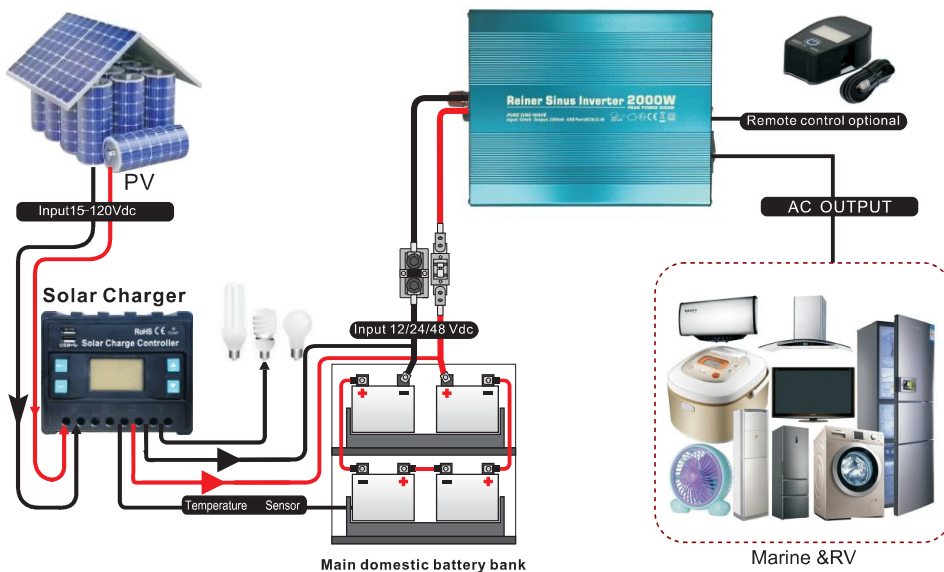
PM series 20A-60A 12/24V AUTO



Features

- ⊙ Pulse Width Modulation Technology, which offers the good efficiency of your PV system.
- ⊙ Automatically detects 12/24V system voltage.
- ⊙ LCD display by symbol and data.
- ⊙ Temperature-compensated, three-stage I-U curve charge regulation.
- ⊙ Full electronic protection (reverse polarity, over-current, short-circuit, over temperature, current drawback, lightning etc.)
- ⊙ High efficiency.
- ⊙ Positive ground.
- ⊙ Dual terminals for solar panel input.
- ⊙ Battery type can be: GEL, AGM and solar battery etc.
- ⊙ Dual USB port.

Application Diagram



Model choose sheet

Model	PM12/24-20D	PM12/24-30D	PM12/24-40D	PM12/24-50D	PM12/24-60D
Normal voltage	12/24V, automatic recognition				
Normal battery charging current	20A	30A	40A	50A	60A
Max. PV input power	300W@12V 600W@24V	450W@12V 900W@24V	600W@12V 1200W@24V	750W@12V 1500W@24V	900W@12V 1800W@24V
Max. solar input voltage Voc	<30V/48V				
Min. solar input voltage Vmp	>16V/32V				
Power conversion efficiency	Max. 90%				
Standby power consumption	<15mA	<15mA	<20mA	<20mA	<20mA
Length=1m charge loop drop	<0.25V				
Length=1m discharge loop drop	<0.05V				
Temperature compensation	-3 mv/cell*K				
LCD screen display	Battery voltage, PV charge current, Load discharge current, total PV charge Ah, total				
Buttons	MENU, LOAD (ON/OFF), UP, DOWN				
Dual USB	use one 2.1A, two port use at same time 1A				
Dimensions (L*W*H)	172*126.3*73mm				
Weight (kg)	0.4	0.42	0.42	0.5	0.55
Ambient temperature range	-40 to +50°C				
Case protection	IP22				
Float charge	13.8V/27.6V				
Constant voltage charge	14.6V (14~15V settable)/29.2V (28~30V settable)				
Low disconnect voltage	11V (10.4~11.4V settable)/22V (20.8~22.8V settable)				
Low reconnect voltage	12.8V (12.2~13.2V settable)/25.6V (24.4~26.4V settable)				
Grounding	Positive grounding				
Battery type	GEL, AGM, Solar battery etc.				