

MPPT Solar Charge Controller

PVCS-MH Series

Introduction:

Designed primarily for residential applications worldwide, PVCS series solar charge Controller is compatible with 12V/24V/36V/48V battery bank and available to select the optimum charge/float voltages for Flooded, Gel or AGM batteries .

Self adapting to 12V,36v,24V,48V battery bank and versatile enough to be used in a wide variety of conditions and locations. Auto-ranging DC input voltage capability (18 - 150 volts DC) makes handling poor-quality power a breeze. The easy-to-read display can be augmented with an optional remote panel. Trouble-free installation is ensured with easy-to-access wiring compartments and reverse-polarity battery protection.



PVCS3048-MH / PVCS4048-MH

- Flexible For 12/24/36V/48V System
- Heatsink cooling
- Advanced MPPT Technology
- Peak conversion efficiency 98%
- LCD+LED display

- charging optimizes battery performance
- Built-in DC Load output
- On line monitor system via RS485 communication



PVCS3048-MH / PVCS4048-MH

PVCS5048-MH/ PVCS6048-MH/ PVCS7048-MH / PVCS8048-MH / PVCS9048-MH / PVCS10048-MH

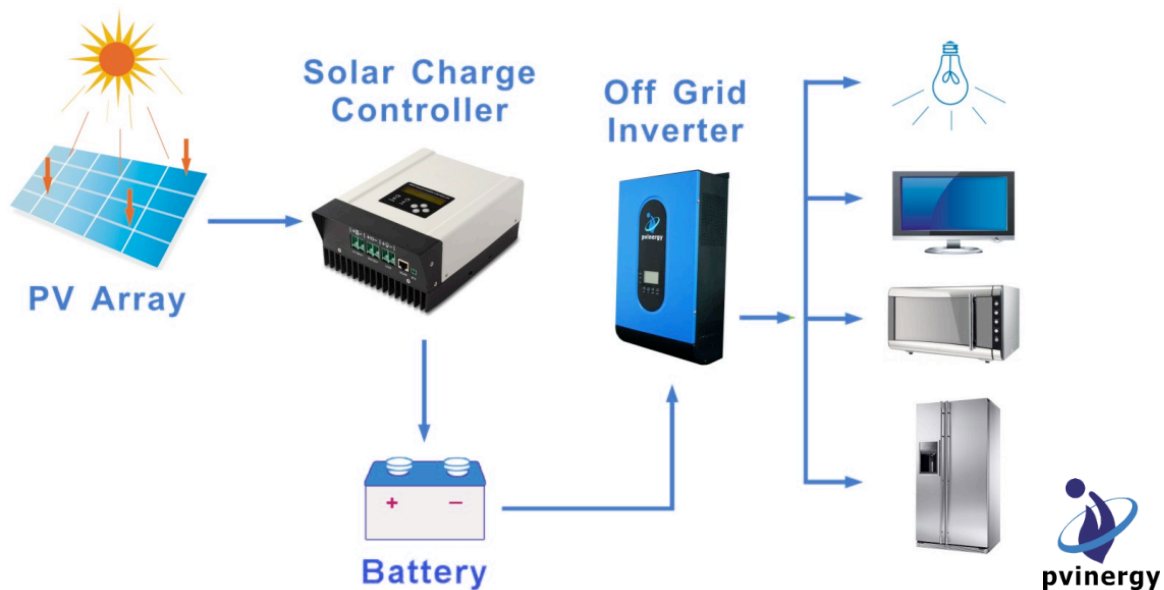
- Flexible For 12/24/36V/ 48V system
- Up to 255 devices can be connected in parallel
- Four stage charging optimizes battery performance
- Comfortable installation and commissioning
- Active MPP tracking Efficiency>97.5%
- Built-in DC Load output
- Heatsink cooling
- Comprehensive protections
- Monitoring your solar harvest on line via RS232/485/Ethernet communication



PVCS5048-MH / PVCS6048-MH



PVCS7048-MH / PVCS8048-MH



Model	PVCS3048 -MH	PVCS4048 -MH	PVCS5048 -MH	PVCS6048 -MH	PVCS7048 -MH	PVCS8048 -MH	PVCS9048 -MH	PVCS10048 -MH
Solar System Voltage	12V /24V /36V/48V							
Electrical								
PV operating voltage	18~100Vdc@12V 35~100Vdc@24V 60~100Vdc@48V		18~150Vdc@12V 35~150Vdc@24V 50~150Vdc@48V 60~150Vdc@48V					
Max. PV input power	12V 400W	12V 600W	12V 700W	12V 800W	12V 1000W	12V 1200W	12V 1300W	12V 1400W
	24V 800W	24V 1200W	24V 1400W	24V 1700W	24V 2000W	24V 2300W	24V 2600W	24V 2800W
	36V 1300W	36V 1700W	36V 2200W	36V 2600W	36V 3000W	36V 3300W	36V 3800W	36V 4200W
	48V 1700W	48V 2300W	48V 2800W	48V 3400W	48V 4000W	48V 4600W	48V 5000W	48V 5400W
Max. charging current	30A	40A	50A	60A	70A	80A	90A	100A
Self Consumption	2w							
Conversion Efficiency	98.50%							
Protection	PV array short circuit, over charging, battery reverse polarity, output short circuit							
Battery charging								
Battery Type	Sealed AGM Gel Flooded Lithium							
Charging Algorithm	4-stage: Bulk, Absorption, Float, Equalize charging							
Bulk charge voltage	Sealed:14.4V AGM Gel:14.2V Flooded:14.6V User defined: 10-15V							
Float charge voltage	Sealed/Gel/AMG:13.7V Flooded:13.7V User defined: 10-15V							
Equalize charge voltage	Sealed:14.6V AGM:14.8V Flooded:14.9V							
Load reconnect voltage	12.5V							
Load disconnect voltage	10.5V~12V Adjustable							
Temperature compensation	5mV/C /2V with BTS(Optional)							
Communication								
Communication Port	RS485(Standard) Ethernet RS232 Optional with on line monitoring system							
Mechanical								
Net weight	3.5KG	6.5kg	7.8kg	9.0kg				
Gross weight	4KG	7.3kg	8.7kg	10kg				
Dimensions(mm)	220*170*90	310*230*110	370*230*110	405*230*110				
Cooling	Heatsink cooling							
Enclosure	IP45							
Environment								
Ambient Operating Temperature:	-25~60 °C							
Storage Temperature	-55~+80 °C							
Humidity	5%~95% non-condensing							
Warranty	Two Years							

