





PCM-5048 PCM-8048

ELECTRICAL SPECIFICATIONS			
MPPT Range @ System Voltage	16/32/48/64~112VDC@12/24/36/48V		
Max PV Input Voltage	140VDC (Open Circuit)		
Max PV Input Current	40A 70A		
Max PV Input Power	3400W	5400W	
Recommended Battery Type	Flooded, GEL, or AGM Lead Acid		
Nominal Battery Voltage	12/24/36/48V		
Max Charging Current	50A	80A	
Standby Power	<2W		
Charging Schemes	Bulk, Absorption, Float, Auto/Manual Equalization		
Battery Temp. Compensation	Built-In, -5.0mV/°C/cell		
Protections	Over Temperature, Reverse Polarity,		
	Reverse Current, Overcharge/Undercharge		
LCD Indicator	PV Input Voltage/Current/Power, Battery Voltage/		
	Current/Temp/SOC, System Date/Time/Temp, Voltage Setting, Data Log Information		
LED Indicator	4, Ready/Charge/Equal/Fault		
Parallel Connections	Yes, Up to 16 Units		
Data Logging	Built-In, Up to 90 Days		
Auxiliary Relays	2 Sets, 3A/50VDC		
GENERAL SPECIFICATIONS			
Certification / EMC	CE / EN61000-6-1, EN61000-6-3		
Operating/Storage Temp.	-20°C~50°C/ -40°C~70°C		
Enclosure Type	Indoor , IP20		
Working Humidity	~95%RH Max Non-Condensing		
Dimension	268*196*147mm	415*225*147mm	
Weight	4.3Kg	7.1Kg	
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KEY FEATURES

- Integrated Maximum Power Point Tracking (MPPT) capability increases performance by 25~30%.
- Compatible for PV projects in 12, 24 or 48V systems.
- Up to 4-stage charging schemes.
- Support wide range of lead-acid batteries including wet, AGM, and gel batteries.
- Large array PV array support up to 5.4KW.
- Maximum charging current up to 80A.
- Allows peer parallel connections up to 16 units via communication ports.
- 4 LEDs and large LCD screen to display device modes and important system information (PV power input, input current, battery voltage, battery SOC, system temperature, and voltage setting).
- Battery energy monitor built-in to calculate energy left in battery for consumption.
- Data logging functionality keeps energy harvest information and battery SOC/Ahr/Whr data up to 90 days.
- System protections include: over-temperature, battery reverse polarity, PV input overload, reverse current, battery overcharge/undercharge.
- Built-in temperature compensation capability.
- 2 sets of built-in Auxiliary Relays for device control.
- Manual or automatic battery equalization.
- Optional 50mv/500A external shunt is required to facilitate BVS (battery voltage sensing).
- High input voltage models (up to 240VDC) are also available in 40A or 80A. Contact us for more info.

BATTERY TYPE	BATTERY VOLTAGE	EQUALIZATION VOLTAGE RANGE	FACTORY SETTING
FLOODED BATTERY	12V	14.7~16.4V	15.6V
	24V	29.4~32.8V	31.2V
	36V	44.1~49.2V	46.8V
	48V	58.8~65.6V	62.4V

^{*}Product specifications are subject to change without prior notice. MPP Solar is a registered trademark of MPP Solar Inc.

