

MPPT CONTROLLERS



	PCM-2012	PCM-2024				
ELECTRICAL SPECIFICATIONS						
MPPT Range @ Operating Voltage	15V~37V@12V	30V~66V@24V				
Max PV Input Voltage	50V	75V				
Max PV Input Current	13A					
Max PV Input Power	200W	400W				
Recommended Battery Type	Sealed Lead-Acid Batteries, AGM or Gel					
Nominal Battery Voltage	12V	24V				
Max Charging Current	20A					
Ripple Voltage	<± 1V					
Max Efficiency	0.97					
Standby Power	<1W	<2W				
Charging Schemes	3 stages, bulk, absorption and floating					
Protections	Battery Reverse Polarity, Reverse Current at Night, LVD/LVR, HVD/HVR, Overload (>110%)					
LCD Indicator	Solar and Output Power, Battery Voltage, Charging Cur- rent, and Fault Conditions					
LED Indicator	3 LED					
GENERAL SPECIFICATIONS						
Conformity / EMC	CE / EN61000-6-1, EN61000-6-3					
Operating	-20°C~55°C					
Enclosure Type	Indoor, IP43					
Working Humidity	100%RH Max Non-Condensing					
Dimension	135*170*57.5mm	200*170*57.5mm				
Weight	0.92Kg	1.85Kg				

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

KEY FEATURES

- NEW! Wider MPPT range allows better compatibility with more panels
- Integrated Maximum Power Point Tracking (MPPT) capability increases performance by 20~25%.
- Intelligent 3-stage charging optimizes system performance.
- Designed for either 12V (max 200W) or 24V (max 400W) projects.
- Charging power up to 201, to reduce overall charging time.
- Maximum efficiency up to 96%.
- Optional com port to program customized charging voltage
- Automatic load detection.
- Automatic battery voltage detection.
- Support all popular battery types including wet, sealed, AGM, Gel or NiCd batteries.
- Large LCD displays useful system parameter.
- Full battery protections (with LVD/LVR, HVD/HVR parameters).
- Suitable for vertical mounting.

Table—Battery Type and Charging Voltage

	PCM-2012		PCM2024	
	BULK	FLOATING	BULK	FLOATING
WET	14.3V	13.2V	28.6V	26.4V
SEALED	14.3V	13.4V	28.6V	26.8V
GEL	14.3V	13.7V	28.6V	27.4V
NiCd	14.3V	14.0V	28.6V	28.0V

