

PCM-50EX

Professional Ultra High Volt MPPT Solar Charger



50A

MAIN FEATURES

- Ultra high voltage input 480VDC!
- Supports high voltage battery systems 48V/72V/96V/120V only
- Large array PV array support up to 8KW*
- Maximum charging current up to 50A
- Programmable charging
- Support Wet, AGM, and Gel batteries
- Allows peer data parallel connections up to 16 units
- 4 LEDs and large LCD screen to display device modes and important system information
- Integrated Battery Monitor to display energy information in battery**
- Data logging storage up to 90 days
- Built-in temperature compensation capability
- Over-temp, PV input overload, reverse current, battery overcharge/undercharge protection
- 2 sets of built-in Auxiliary Relays for device control
- Manual or automatic battery equalization.

*based on max equalization charge on a 120v battery bank at 160V.
 **This feature requires optional accessory 500A/50mv shunt to activate. Please contact us for more detail.



HIGH PV INPUT



LARGE PV SUPPORT



**48, 72, 96, 120VDC
HIGH-VOLT BATTERY SUPPORT**



2X AUX RELAYS

PCM-50EX

ELECTRICAL SPECIFICATIONS

MPPT Range @ System Voltage	64-, 96-, 128-, 160-384VDC @ 48V, 72V, 96V, 120V
Max PV Input Voltage	480VDC
Max PV Input Current	40A
Max PV Input Power	up to 8000W
Recommended Battery Type	Flooded, GEL, or AGM Lead Acid
Nominal Battery Voltage	48V, 72V, 96V, 120VDC
Max Charging Current	50A
Standby Power	<4W
Charging Schemes	Bulk, Absorption, Float, Auto/Manual Equalization
Battery Temp. Compensation	Built-In, -5.0mV/°C/cell
Protections	Over Temperature, PV Overload, 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	426*265*167mm
Weight	10.6Kg

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