PCM60X

MPPT SOLAR CHARGE ONTROLLER

inpowers the ultimate power solutions

ELECTRICAL SPECIFICATIONS

MPPT Range @ System Voltage	15 ~ 115VDC	30 ~ 115VDC	60 ~ 115VDC
Max PV Input Voltage	145VDC (Open Circuit)		
System Voltage	12V	24V	48V
Max PV Input Power	800W	1600W	3200W
Max Input Current		50A	
Recommended Battery Type	Flooded, GEL, or AGM Lead Acid		
Max Charging Current	60A		
Charging Schemes	3-step, Bulk, Absorption, Float		
Flooded Absorb/Float	14.6V, 13.5V	29.2V, 27V	58.4V, 54V
AGM, Gel Absorb/Float	14.1V, 13.5V	28.2V, 27V	56.4V, 54V
Max Equalization Charge	15V	30V	60V
Battery Temp. Compensation	-5.0mV/°C/cell (25°C reference)		
BTC range	0°C—50°C		
Protections	Overinput current, high temperature disconnect/reconnect, high PV & high/low battery voltage disconnect/reconnect		
LED Indicator	3, Power ON/Charging, Fault/Warning, Wiring Fault		

GENERAL SPECIFICATIONS

Certification / EMC	CE
Ambient / Storage Temp.	0°C—50°C / -30°C—70°C
Enclosure Type	Indoor , IP31
Working Humidity	0-90%RH Max Non-Condensing
Dimension	315*165*128mm
Weight	4.5kg
Warranty	1 Year / 3 years (extended)

KEY FEATURES

- Maximum Power Point Tracking (MPPT) capability increases performance by 25~30%.

- Max 60amp output

- Compatible with 12, 24 or 48V systems.

- 3-stage charging scheme

- Max equalization charge 60V

- Supports programmable charging voltages

- Built-in COM port for bundled monitoring software (MPPTracker®)

- Support wide range of lead-acid batteries including flooded, AGM, and gel batteries.

- Max PV array support up to 3.2kw (for 48V only).

- Maximum efficiency up to 98%

- System protections include: overinput current or power, high temperature protection, battery HVD/HVR/LVD/LVR

- Built-in BVS (battery voltage sensing)

- Built-in BTS (battery temp compensation), wire sold separately