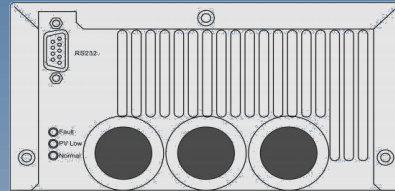
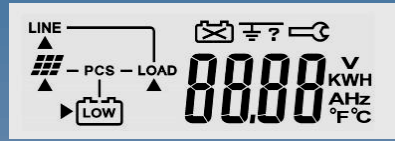


# MPPT CONTROLLERS



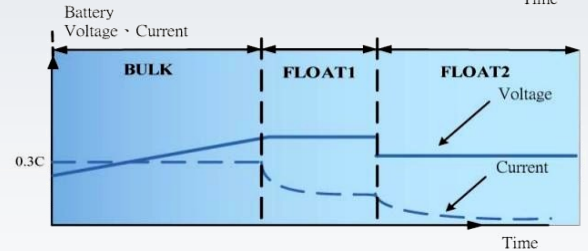
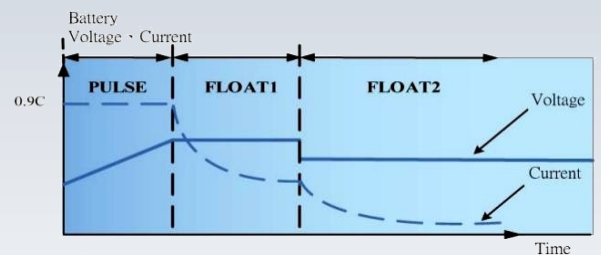
PCM-4048

PCM-6048

ELECTRICAL SPECIFICATIONS	
MPPT Range @ Operating Voltage	40~120V@12 or 24V, 50~120V@36V, 60~120V@48V
Max PV Input Voltage	150V
Max PV Input Current	25A                      35A
Max PV Input Power	1000W                      1500W
Recommended Battery Type	Sealed Lead-Acid Batteries, AGM or Gel
Nominal Battery Voltage	12/24/36/48V
Max Charging Current	40A / 1000w                      60A / 1500w
Ripple Voltage	<± 1V
Max Efficiency	0.95
Standby Power	2W
Charging Schemes	4 stages bulk/ pulse/ float 1/ float2 or 3 stages bulk/float 1/ float 2
Battery Temp. Compensation	-3.3mV/°C/cell
Protections	Solar Reverse Polarity, Reverse Current at Night, Output Short Circuit, Overload (>110%)
LCD Indicator	PV Input Voltage/Current/Power, Battery Voltage/Current/AH, Battery Temp, Voltage Setting
LED Indicator	Normal/Fault/ PV low
GENERAL SPECIFICATIONS	
Certification / EMC	CE / EN61000-6-1, EN61000-6-3
Operating/Storage Temp.	-20°C~60°C / -40°C~85°C
Enclosure Type	Indoor , IP20
Working Humidity	100%RH Max Non-Condensing
Dimension	165*330*85mm                      165*330*85mm
Weight	3.2Kg                                      3.2Kg

## KEY FEATURES

- Integrated **Maximum Power Point Tracking (MPPT)** capability increases performance by 25~30%.
- Intelligent automatic 4-stage charging (Bulk/Pulse/Float1/Float2) optimizes system performance.
- Designed to accommodate project sizes from 12V to 48V (minimum input voltage 40V).
- Allows high voltage panels (24/48V) to charge low voltage batteries (12/24V).
- Parallel up to **254 units** for large projects.
- High charging current up to **60A** output reduces overall charging time.
- Maximum efficiency up to 95%.
- Automatic battery voltage detection.
- Full-feature battery protections.
- Battery temperature sensor (BTS) automatically provides temperature compensation.
- RS232 interface connects to PC for software monitoring.
- Support sealed AGM or Gel batteries
- Multifunctional LCD displays useful system info.
- Suitable for wall mounting.



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