

Premium MPPT Series

40Amp~80Amp

“Wind & Solar” Charge Controller
Optimal Solar Maximum Power Point Tracking
Battery Charger (Max. 16units)



Power Master
Technology Co., Ltd

Feature

- ★ Battery charge management, state of charge information.
- ★ Built-in Battery Energy Monitor tracks power production and consumption to calculate the energy remaining in battery state of charge (SOC) is displayed in percent full, Amp-hours, Watt-hours, and 90days of energy-harvest history is stored in the solar charger.
- ★ 2/3/4 stage charging with adjustable set points. ★ Support battery bank 12/ 24/ 36/ 48Vdc.
- ★ Wire the PV modules in series up to 112Vdc normal (140Vdc Max.) for 50AM & 80AM MPPT and 192Vdc normal (240Vdc Max.) for 40AMW & 80AMW MPPT.

Specification

Model No.	PM-SCC-50AM	PM-SCC-80AM	PM-SCC-40AMW	PM-SCC-80AMW
Maximum output current (Continuous at up 50 °C ambient temperature)	50Amps	80Amps	40Amps	80Amps
Battery Voltages	12, 24, 36, 48VDC Normal			
Max PV Input Current	40Amps	70Amps	30Amps	70Amps
Input Voltage Range	16~112VDC Operating		16~192VDC Operating	
	140VDC Maximum Open Circuit Voltage		240VDC Maximum Open Circuit Voltage	
Max PV Array Power	3250Watts (Maximum when equalizing 48V battery to 64V at 50 Amps)	5200Watts (Maximum when equalizing 48V battery to 64V at 80 Amps)	2600Watts (Maximum when equalizing 48V battery to 64V at 40 Amps)	5200Watts (Maximum when equalizing 48V battery to 64V at 80 Amps)
Charge Regulation Modes	Bulk, Absorption, Float, Auto / Manual Equalization			
Battery Temperature Compensation	5.0mV per °C , per 2volt cell			
DC to DC Conversion Capability	12V Battery : 16~112VDC		12V Battery : 16~192VDC	
	24V Battery : 32~112VDC		24V Battery : 32~192VDC	
	36V Battery : 48~112VDC		36V Battery : 48~192VDC	
	48V Battery : 64~112VDC		48V Battery : 64~192VDC	
Display Status	Built-in 2-line, 20-character LCD with backlight LCD status screen displays input voltage and current, output voltage and current, charge-mode, Battery SOC			
Data Logging	Logs energy harvested for 90 days, LCD displays WH, KWH, AH			
Energy Monitor	LCD shows SOC, AH, WH, and present charge or discharge current. A 50mV / 500Amp shunt is required to use			
Auxiliary Relays	Two independent relays with from A (SPST) contacts for control of external devices. Contact rating is 3Amps, 50VDC			
Operation Temperature	Full Power Output to +50 °C ambient			
Standby Power	< 2Watts			
Dimension (mm)	267.6 × 196 × 147	414.8 × 225 × 147	267.6 × 196 × 147	414.8 × 225 × 147
Weight (kgs)	4.3	7.1	4.3	7.1



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