

MPPT CONTROLLERS

IP67 Rating

80V Input, Thin-Film Compatible



PCM-924

ELECTRICAL SPECIFICATIONS	
Input Range @ System Voltage	18~80V@12V, 36~80V@24V
Type	Maximum Power Point Tracking (MPPT)
Max PV Input Voltage	80VDC (Open Circuit)
Max PV Input Current	7A (Vmp) / 10.5A (Isc)
Max PV Input Power	125W (12V) / 250W (24V)
Recommended Battery Type	Gel or AGM Lead Acid
Nominal Battery Voltage	12/24V (automatic)
Max Charging Current	9A
Self Consumption Power	40mA
Maximum Load Output	7A
Charging Schemes	Bulk, Absorption, Float
Absorption Charging Voltage	14.4V / 28.8V
Float Charging Voltage	13.65V / 27.3V
Low Voltage Disconnect	11V / 22V
Low Voltage Reconnect	12.3V / 24.6V
Protections	PV Input Overload, Output Overload, Reverse Current at Night, Overcharging / Overdischarging
GENERAL SPECIFICATIONS	
Certification / EMC	CE
Operating/Storage Temp.	-40°C~55°C
Enclosure Type	IP67, Outdoor
Working Humidity	~95%RH Max Non-Condensing
Dimension	190*125*55mm
Weight	0.7kg

KEY FEATURES

- Integrated **Maximum Power Point Tracking (MPPT)** capability increases performance by 25~30%.
- **High input voltage design 80Voc** compatible with many **thin-film** modules.
- **IP67 waterproof protection** rating for outdoor use
- **MC4-type load/battery terminal design;** adaptors included
- Intelligent 3-stage charging optimizes system performance.
- Compatible with **12 or 24V** battery systems.
- Max charging power of **9A**
- Max **96%** efficiency
- High voltage input allows easier **SERIAL** connection instead of parallel.
- Automatic battery voltage detection.
- Support all popular battery types including sealed AGM or gel lead acid batteries.
- Full feature battery protections.
- LED error/fault indicators.

LED Status Definition

LED	Status	Indication	Loads	Note
ERR	On	Batt Voltage Error	Off	Voltage Error
12V	On/Flashing	Standby / Charging	On	12V Batt
24V	On/Flashing	Standby / Charging	On	24V Batt
LVD	On	Low Voltage Disconnect	Off	Charging Only

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