

CHARGE CONTROLLER MPPT 60 PRO DATASHEET



AVAILABLE IN:

60A



RV-C | Modbus

SMARTER SOLAR. CONNECTED BY DESIGN.

The Xantrex Solar Charge Controller MPPT 60 PRO delivers intelligent, connected solar charging for RV, marine and mobile power systems. It combines advanced MPPT charging, intelligent battery management and flexible system connectivity to maximize solar energy and simplify system integration. Designed for larger solar arrays and higher-power applications, the MPPT 60 PRO supports 12/24/36/48V systems and delivers up to 60A charging. UL and CSA certified, it provides the performance, reliability and confidence expected for demanding mobile power applications.



MAXIMIZE SOLAR HARVEST

Advanced MPPT technology optimizes available solar energy.



PROTECT EVERY CHARGE

Intelligent charging adapts to battery needs, supporting AGM, gel, flooded, LiFePO₄ and custom battery profiles.



STAY CONNECTED, STAY IN CONTROL

RV-C, Modbus and Bluetooth enable flexible connectivity, with Firefly integration for connected RV systems.



MONITOR WITH CONFIDENCE

Real-time solar and charging information through connected systems or the Xantrex App.

150 V

MAX PV INPUT

60 A

CHARGING CURRENT

12/24/36/48 V

SYSTEM VOLTAGE

99 %

MPPT TRACKING EFFICIENCY

Part of the Xantrex MPPT PRO Series, one connected solar platform, available in 30A and 60A power classes.

APPLICATIONS:



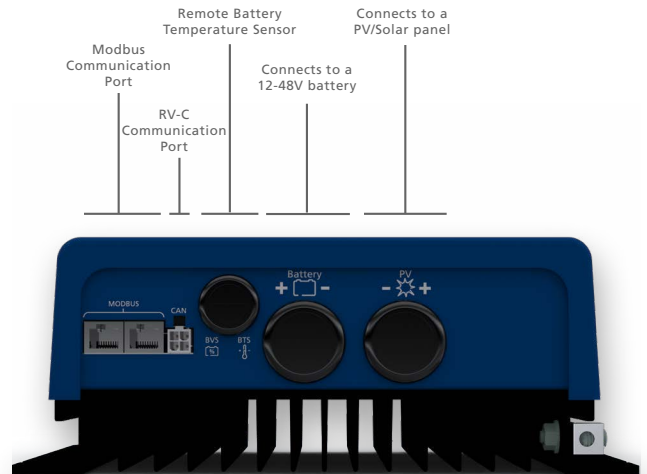
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**5 YEAR
WARRANTY**



PANEL OPENS TO REVEAL PORTS



BOTTOM PORTS

PRODUCT FEATURES

OPTIMIZED SOLAR HARVEST

- Ultra-fast MPPT tracking with multi-peak optimization
- >99% MPPT tracking efficiency
- Optimized performance across changing solar conditions

CONNECTED SYSTEM INTEGRATION

- Native RV-C and Modbus connectivity for centralized monitoring and control
- Firefly integration for centralized RV monitoring and control
- Built-in Bluetooth connectivity with the Xantrex App
- Real-time solar and charging status

INTELLIGENT BATTERY CHARGING

- Charging that regulates power and current flow to protect and prolong battery lifespan
- Battery temperature compensation
- Support for AGM (Sealed), Gel, Flooded and LiFePO₄ battery chemistries
- Dynamic power reduction for thermal protection

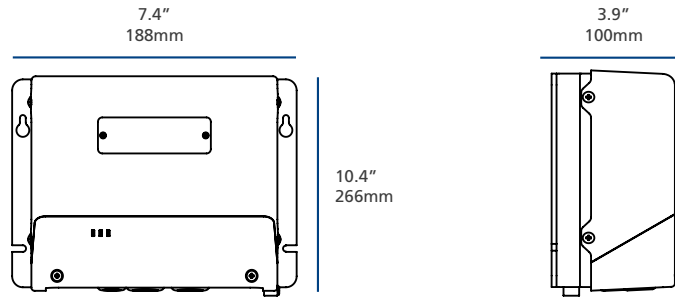
BUILT-IN PROTECTION

- Input power limiting
- PV and battery reverse-polarity protection
- PV overvoltage and short-circuit protection
- Night reverse-current, TVS surge and over-temperature protection

BUILT FOR LARGER SOLAR SYSTEMS

- 60A charging current and up to 150V PV input support larger solar arrays and higher-power system designs.
- 12/24/36/48V system voltage supports a wider range of RV, marine, and specialty vehicle battery banks.
- Higher-voltage PV array configurations can provide greater system-design flexibility and may simplify PV wiring in appropriate installations.

DIMENSIONS



ELECTRICAL DATA

SOLAR CHARGE CONTROLLER	MPPT 60 PRO
Part Number	710-6048-01
Nominal System Voltage	12/24/36/48 Vdc Auto-Detect
Rated Charging Current	60 A
Max. PV Open Circuit Voltage	150 V
MPP Voltage Range	(Battery voltage + 2 V) up to 120 V
Max. PV Input Power	12 V: 400 W 24 V: 800 W 36 V: 2400 W 48 V: 3200 W
MPPT Tracking Efficiency	>99%
Charging Conversion Efficiency	98%
Battery Types Supported*	Lead-acid battery (Sealed AGM) / Gel / Flooded) / Lithium-Iron Phosphate (LiFePO4)
Self-consumption	12 V: 75 mA 24 V: 30 mA 48 V: 18 mA
Communication	Bluetooth, CAN Network (RV-C). RS-485 Modbus
Grounding	Common negative
Protection	Short-circuit protection, charge over-current protection, and protection against input overloading

ENVIRONMENTAL DATA

SOLAR CHARGE CONTROLLER	MPPT 60 PRO
Temperature Compensation Coefficient	-3mV/°C/2V (default)
Operating Temperature Range	-35–104°F (-35–40°C), fully-rated output
Storage Temperature Range	-31–158°F (-35–85°C)
IP Rating	IP20
Relative Humidity	10 - 95 %RH, non-condensing

MECHANICAL DATA

SOLAR CHARGE CONTROLLER	MPPT 60 PRO
Dimensions (H x W x D)	5.91 x 4.45 x 2.83 in (150 x 113 x 72 mm)
Net Weight	2.09 lbs / 950 g
Maximum Cable Size (PV Array and Battery)	0.63 in² (16 mm²) / 5 AWG

REGULATORY

SOLAR CHARGE CONTROLLER	MPPT 60 PRO
Compliance	UL1741, CSA C22.2#107.1