

MPPT CHARGE CONTROLLER DATASHEET



AVAILABLE IN:

RV: 710-6048-01

12V, 24V, 36V, and 48V


COMPLIANCE:


UL1741


CSA C22.2#107.1


ENHANCED ENERGY OPTIMIZATION, SMART SOLAR PERFORMANCE.


The Xantrex Solar Charger Controller MPPT60 delivers superior efficiency and performance, supporting up to 150V and 60A for optimal power harvesting and seamless scalability in your solar system. Featuring advanced Maximum Power Point Tracking (MPPT) technology, it offers up to 30% more power compared to PWM charge controllers, enhancing overall energy efficiency. Compatible with 12V, 24V, 36V, and 48V battery systems, the MPPT60 optimizes performance across various energy requirements. This controller provides real-time energy monitoring and comprehensive historical data, empowering informed decisions for improved system performance, energy savings, and reliability.


 30% Higher than PWM load

 MPPT tracking efficiency is up to 99.5%


 RV short-circuit protection, charge over-current protection.

 Lead-acid, AGM (Sealed), Gel, Flooded, Lithium batteries and custom

 RV-C, Modbus, and Bluetooth built-in

 Current-limiting charging mode

 12/24/36/48V System voltage

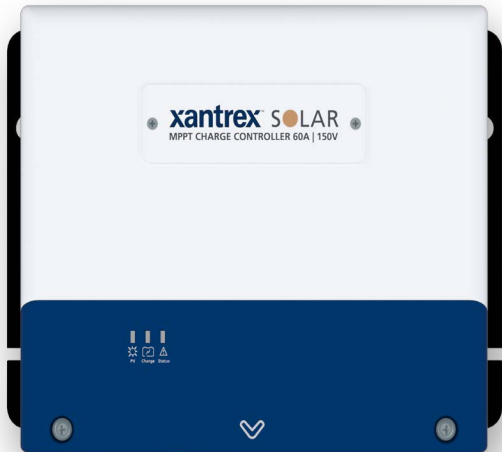
 Xantrex App for ultimate control

APPLICATIONS:

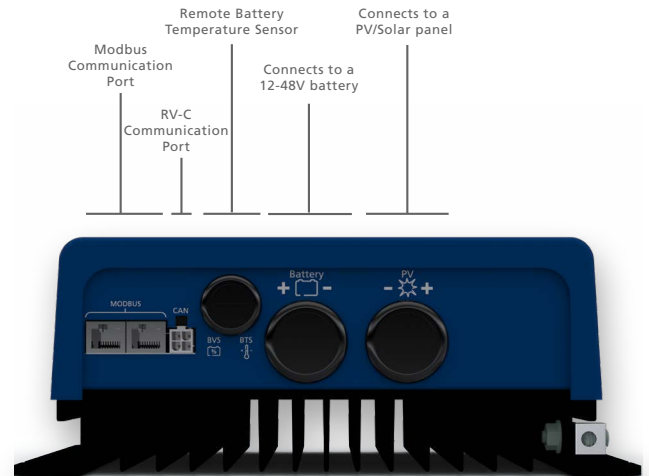


**5 YEAR
WARRANTY**

www.xantrex.com
CUSTOMER CARE: 1.800.670.0707



PANEL OPENS TO REVEAL PORTS

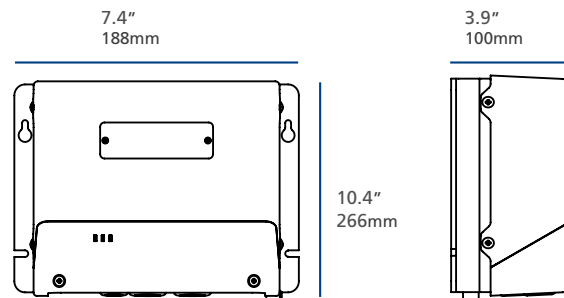


BOTTOM PORTS

PRODUCT FEATURES

- Ultra fast tracking speed including multiple power point peaks with a 99.5% efficiency rating
- Xantrex MPPT control algorithm maximizes solar system efficiency and energy harvesting effectiveness
- Manages and optimizes power output from a diverse array of solar panels under varying environmental conditions
- Regulates power and current flow to protect and prolong battery lifespan
- The battery's status is monitored, and charging current is adjusted to prevent overcharging when fully charged
- Protection against short-circuiting enhances safety, while protection against input overloading enhances system reliability and longevity
- Battery temperature compensation boosts both system performance and charging efficiency
- Real-time monitoring provides data on energy usage and solar power system efficiency
- Dynamic power reduction prevents overheating and improves battery performance and safety
- LED indicators display PV charging, charger stage, and event status
- Remote panel for monitoring and setting (requires the Solar MPPT Remote Panel)

DIMENSIONS



ELECTRICAL DATA

CHARGE CONTROLLER	60 A
Part Number	710-6048-01
Nominal System Voltage	12/24/36/48 VDC, Auto Detect
Rated Charge Current	Battery: 60 A
Battery Voltage Range	9-64 Vdc
Max. PV Open Circuit Voltage	150 V
MPP Voltage Range	(Battery voltage + 2 V) up to 120 V
Max. PV Input Power	12 V: 800W 24 V: 1600W 36 V: 2400W 48 V: 3200W
Peak Efficiency	98%
Battery Types Supported	Battery: Lead-acid battery (Sealed(AGM) / Gel / Flooded) Lithium-Iron Phosphate (LiFePO ₄)
Self-consumption	12 V: 75mA 24 V: 30mA 48 V: 18mA
Temperature Compensation Coefficient	-3 mV/°C/2 V
Communication Capability	Built-in: CAN RV-C, RS-485 Modbus, and Bluetooth
Grounding	Common negative

ENVIRONMENTAL DATA

CHARGE CONTROLLER	60 A
Storage Temperature Range	-31–158°F (-35–85°C)
Operating Temperature Range	-35–104°F (-35–40°C), fully-rated output
Relative Humidity	10-95%, N.C.
Enclosure Protection	IP20

MECHANICAL DATA

CHARGE CONTROLLER	60 A
Dimensions (H x W x D)	10.4 x 7.4 x 3.9 in (266 x 188 x 100 mm)
Net Weight	7.9 lbs / 3.6 kg
Max. Cable Size (PV Array and Battery)	0.63in ² (16mm ²) / 5AWG
Recommended Cable Size (PV Array and Battery)	0.24in ² (6mm ²) / 10AWG or higher

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CONTACT

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