

CHARGE CONTROLLER MPPT 30 PRO DATASHEET

AVAILABLE IN:

30A



SMARTER SOLAR. CONNECTED BY DESIGN.

The Xantrex Solar Charge Controller MPPT 30 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. UL and CSA certified, the MPPT 30 PRO delivers 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.

100 V

MAX PV INPUT

30 A

CHARGING CURRENT

12/24 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.

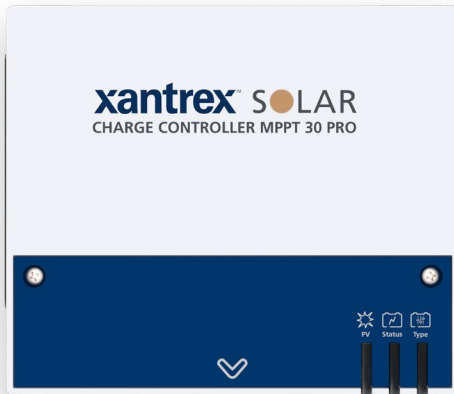
APPLICATIONS:



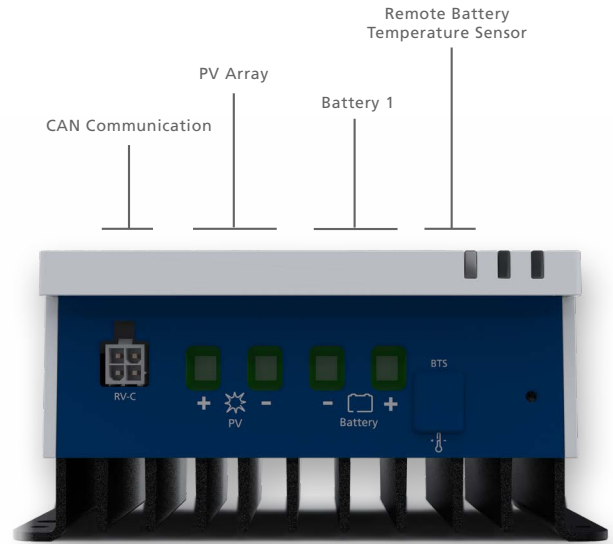
www.xantrex.com
CUSTOMER CARE: 1.800.670.0707

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**5 YEAR
WARRANTY**



LED INDICATORS DISPLAY PV CHARGING, BATTERY STATUS, AND BATTERY TYPE



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

- RV-C and Modbus support for flexible system integration
- Firefly system integration for centralized RV monitoring and control
- Built-in Bluetooth connectivity with the Xantrex App
- Real-time solar and charging data for system monitoring and diagnostics

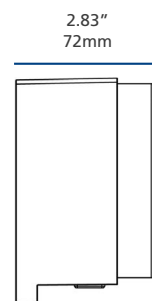
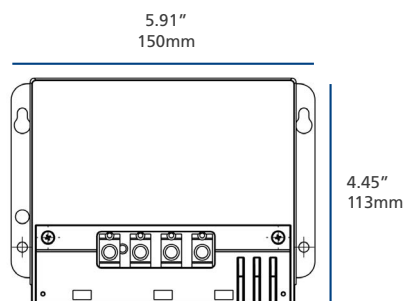
INTELLIGENT BATTERY CHARGING

- Adaptive multi-stage charging
- Battery temperature compensation
- Support for lead-acid 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

DIMENSIONS



ELECTRICAL DATA

SOLAR CHARGE CONTROLLER	MPPT 30 PRO
Part Number	710-3044-01
Nominal System Voltage	12/24 Vdc Auto-Detect
Rated Charging Current	30 A
Max. PV Open Circuit Voltage	100 V
MPP Voltage Range	(Battery voltage + 2 V) up to 72 V
Max. PV Input Power	12 V: 400 W 24 V: 800 W
MPPT Tracking Efficiency	>99%
Charging Conversion Efficiency	≤97%
Battery Types Supported*	Lead-acid battery (Sealed(AGM) / Gel / Flooded) and Lithium-Iron Phosphate (LiFePO4)
Absorption Charging Voltage	By default: 14.4 V Configurable: 9~17 V
Float Charging Voltage	By default: 13.8 V Configurable: 9~17 V
Zero Load Loss	<40 mA
Communication	Bluetooth, CAN Network (RV-C)
Protection	Input power limiting, reverse polarity protection (PV and battery), PV overvoltage protection, short-circuit protection, night reverse current protection, lightning surge protection (TVS), and over-temperature protection

ENVIRONMENTAL DATA

SOLAR CHARGE CONTROLLER	MPPT 30 PRO
Temperature Compensation Coefficient	-3mV/°C/2V (default)
Operating Temperature Range	-31~113°F (-35~60°C), fully-rated output
Storage Temperature Range	-40~176°F (-40~80°C)
Altitude	≤2000 meters
IP Rating	IP21
Relative Humidity	10 - 95 %RH, non-condensing

MECHANICAL DATA

SOLAR CHARGE CONTROLLER	MPPT 30 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

REGULATORY

SOLAR CHARGE CONTROLLER	MPPT 30 PRO
Compliance	UL1741, CSA C22.2#107.1