

# xantrex™ SOLAR

## CHARGE CONTROLLER MPPT 30 PRO DATASHEET




AVAILABLE IN:


**30A**





### ADVANCED POWER UPGRADE, MAXIMIZE DAILY ENERGY HARVEST


The Xantrex Solar Charge Controller MPPT 30 PRO delivers high efficiency and performance, supporting up to 100V PV input and 30A for optimal power harvesting and system scalability. Featuring advanced Maximum Power Point Tracking (MPPT) technology, it offers up to 99% efficiency and delivers optimized energy capture across a wide range of operating conditions. Designed for modern RV and mobile power systems, the MPPT 30 PRO integrates seamlessly into RV-C enabled networks for centralized monitoring and control. Compatible with 12V and 24V battery systems, it optimizes performance across diverse applications. This controller provides real-time energy monitoring and comprehensive historical data in the Xantrex App, supporting improved system performance, energy efficiency, and reliability.

 Optimized solar energy harvest

 Comprehensive protection


 Lead-acid, AGM, gel, flooded, lithium and custom batteries

 12V/24V System Voltage

 MPPT tracking efficiency is >99%

 RV-C and Bluetooth connectivity

 Current-limited charging mode

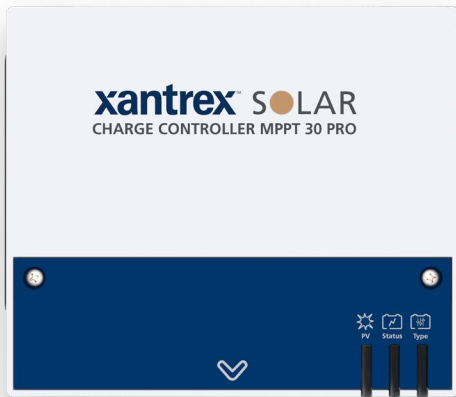
 Xantrex App for real-time monitoring

#### APPLICATIONS:

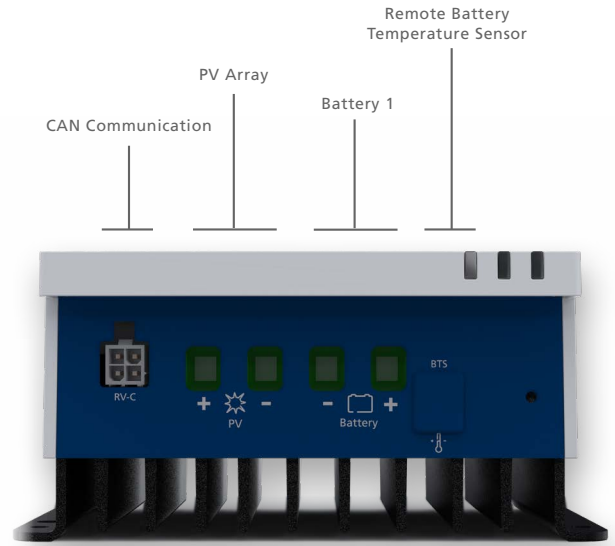


[www.xantrex.com](http://www.xantrex.com)  
CUSTOMER CARE: 1.800.670.0707

**5 YEAR  
WARRANTY**



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

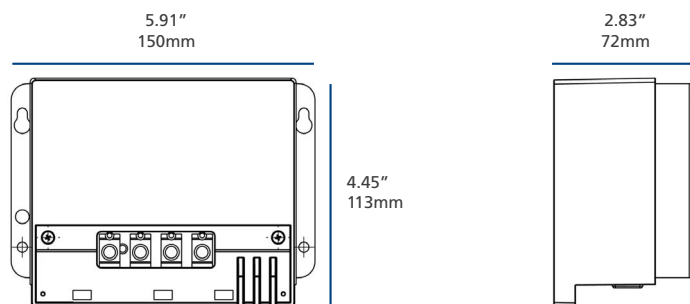


BOTTOM PORTS

## PRODUCT FEATURES

- Ultra-fast MPPT tracking with multi-peak optimization for maximum energy harvest
- Xantrex MPPT control algorithm maximizes solar system efficiency and energy harvesting effectiveness
- Optimizes power output from a diverse array of solar panels under varying environmental conditions
- Regulates power and current flow to protect and extend battery life
- Monitors battery status and adjusts charging to prevent overcharging
- Integrated protection and fault management enhance system safety, 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
- Enables seamless integration with RV-C multiplex systems for centralized monitoring, reduced wiring complexity, and improved serviceability
- Comprehensive protection including input power limiting, reverse polarity (PV and battery), PV overvoltage and short-circuit, night reverse current, lightning (TVS), 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