ADVANCED POWER UPGRADE, MAXIMIZE DAILY ENERGY HARVEST

The Xantrex Solar MPPT Charge Controller 30 features advanced Maximum Power Point Tracking (MPPT) technology, providing an instant upgrade to your solar system with up to 30% more power compared to PWM charge controllers. Offering greater flexibility, simplicity, and efficiency in PV array designs, higher voltage PV arrays can be used up to 72V (nominal). Equipped with dual-battery bank charging ports ideal for simultaneously charging and maintaining 12V house and starter batteries, best-in-class PV array and battery protections, and a built-in LCD display providing real-time system data. Optional accessories include a remote battery temperature sensor and remote panel.

- Advanced Maximum Power Point Tracking (MPPT) technology increasing daily energy harvest by 20-30% compared to PWM technology
- Dual-battery bank charging to simultaneously charge house and starter batteries
- Best-in-class PV array and battery protections
- House battery types supported: Sealed (AGM), Gel, Flooded, Lithium Iron Phosphate (LiFePO4)

APPLICATIONS:

www.xantrex.com
CUSTOMER CARE: 1.800.670.0707
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**PRODUCT FEATURES**

- Advanced multi-stage charging technology, Bulk, Absorption, Float, Equalization, for optimal battery charging
- Intuitive and easy-to-program
- MPPT charging algorithm with 99.5% efficiency
- DC/DC conversion with 98% efficiency
- Dual battery-bank charging ports, no need for trickle chargers
- Built-in LCD display – PV Array (Volts, Amps, Watts, Watt-hours)
- Starter & House Battery (Volts, Temperature)
- House battery types supported: Sealed (AGM), Gel, Flooded, Lithium Iron Phosphate (LiFePO₄)
- Best-in-class PV array and battery protections
- Naturally-cooled by convection
- Wide operating temperature range
- Optional remote battery temperature sensor (lead-acid batteries only)
- Optional remote panel

**DIMENSIONS**

- 5.91" (165mm)
- 2.64" (67mm)
- 9.92" (251.9mm)

**RECOMMENDED ACCESSORIES**

**MPPT Remote Panel w/ 25' Cable**

(710-0010)

Provides real-time data about your solar system

**REMOTE BATTERY TEMPERATURE SENSOR**

(708-0080)

Optimizes battery charging and battery life expectancy
## ELECTRICAL DATA

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>710-3024-01</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nominal System Voltage</strong></td>
<td>12/24V Auto-Detect</td>
</tr>
</tbody>
</table>
| **Rated Charge Current** | Battery 1: 30A  
Battery 2: 1A |
| **Battery Voltage Range** | 8 to 32V |
| **Max. PV Open Circuit Voltage** | 100V |
| **MPP Voltage Range** | (Battery voltage + 2V) up to 72V |
| **Max. PV Input Power** | 12V: 580W  
24V: 1170W |
| **Rated Charge Power** | 12V: 390W  
24V: 780W |
| **Battery Types Supported** | Battery 1 (House): Lead-acid battery (Sealed(AGM) / Gel / Flooded)  
Lithium Iron Phosphate (LiFePO₄)  
Battery 2 (Starter): Lead-acid battery (Sealed(AGM) / Gel / Flooded) |
| **Self-consumption** | 12V: 17mA  
24V: 10mA |
| **Temperature Compensation Coefficient** | -3mV/°C/2V |

*Battery 1 and Battery 2 can be different battery chemistries, but must be the same nominal voltage (12V or 24V)*

## ENVIRONMENTAL DATA

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>30A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Storage Temperature Range</strong></td>
<td>-20°C to 70°C</td>
</tr>
<tr>
<td><strong>Operating Temperature Range</strong></td>
<td>-25°C to 45°C (fully-rated output)</td>
</tr>
<tr>
<td><strong>Relative Humidity</strong></td>
<td>≤95%, N.C.</td>
</tr>
<tr>
<td><strong>Enclosure Protection</strong></td>
<td>IP33</td>
</tr>
</tbody>
</table>

## MECHANICAL DATA

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>30A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions</strong></td>
<td>5.91“ W X 9.92“ H X 2.64“ D (165.0mm W X 251.9 mm H x 67.0 mm D)</td>
</tr>
<tr>
<td><strong>Net Weight</strong></td>
<td>2.9 lbs / 1.3 kg</td>
</tr>
<tr>
<td><strong>Max. Cable Size (PV Array and Battery 1)</strong></td>
<td>0.63in² (16mm²) / 6AWG</td>
</tr>
<tr>
<td><strong>Recommended Cable Size (PV Array and Battery 1)</strong></td>
<td>0.24in² (6mm²) / 10AWG or higher</td>
</tr>
<tr>
<td><strong>Max. Cable Size (Battery 2)</strong></td>
<td>0.16in² (4mm²) / 12AWG</td>
</tr>
<tr>
<td><strong>Recommended Cable Size (Battery 2)</strong></td>
<td>0.04in² (1mm²) / 18AWG or higher</td>
</tr>
</tbody>
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