

Xantrex 806-1210

# Xantrex PROwatt SW 1000 Inverter (Model 806-1210) Instruction Manual

Pure Sine Wave Inverter for Reliable Power

Introduction	Safety Information	Product Overview	Setup	Operating Instructions Warranty & Support	Maintenance
	Troubleshooting	Specifications			

## 1. INTRODUCTION

This manual provides essential information for the safe and efficient operation of your Xantrex PROwatt SW 1000 Inverter (Model 806-1210). This pure sine wave inverter converts 12 VDC battery power to 120 VAC household power, suitable for a wide range of electronic devices and appliances. Please read this manual thoroughly before installation and use.

## 2. SAFETY INFORMATION

**WARNING: High voltage. Do not open the inverter enclosure. Refer all servicing to qualified personnel.**

- Always connect the inverter to a properly grounded electrical system.
- Ensure adequate ventilation around the inverter to prevent overheating.
- Do not expose the inverter to moisture, rain, or extreme temperatures.
- Disconnect battery power before performing any maintenance or wiring.
- Avoid connecting loads that exceed the inverter's rated output power.
- This product may contain chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

## 3. PRODUCT OVERVIEW

The Xantrex PROwatt SW 1000 Inverter is designed for robust performance and ease of use. Key features include:

- **Pure Sine Wave Output:** Provides clean, stable power suitable for sensitive electronics.

- **Digital Display:** Shows DC input voltage and AC output power.
- **USB Port:** Built-in 2.1A USB port for charging mobile devices.
- **Dual GFCI AC Receptacles:** For safe operation and protection against ground faults.
- **Heavy-Duty Terminals:** Ensures secure battery connections.
- **Advanced Protection Features:** Includes low voltage shutdown, over voltage protection, overload shutdown, and over temperature shutdown.
- **Optional Remote Switch:** Allows convenient control from a distance.



Figure 1: Front view of the Xantrex PROwatt SW 1000 Inverter, showing the digital display, USB port, and AC outlets.

## 4. SETUP

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### 4.1. Mounting the Inverter

Mount the inverter in a dry, well-ventilated area, away from direct sunlight, heat sources, and flammable materials. Ensure there is sufficient space around the unit for airflow, especially around the cooling fans.

### 4.2. Battery Connection

Connect the inverter directly to your 12 VDC battery bank using appropriate heavy-gauge cables. Always

connect the negative (-) cable first, then the positive (+) cable. Ensure connections are tight and secure to prevent voltage drop and overheating.

*Video 1: This video demonstrates the connection of battery cables to a Xantrex PROwatt SW inverter. While the video features a 2000W model (806-1220), the connection procedure for the 1000W model (806-1210) is similar. Ensure to use appropriate cable gauges for your specific model and installation.*

### 4.3. AC Output Connection

Plug your 120 VAC appliances directly into the dual GFCI AC receptacles on the front of the inverter. For permanent installations, the inverter may be hardwired into your electrical panel by a qualified electrician, utilizing the appropriate terminals.

### 4.4. Remote Switch Connection (Optional)

If using the optional remote switch, connect its cable to the 'REMOTE' port on the inverter. This allows for convenient power control from a remote location.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Turning the Inverter On/Off

- **Manual Operation:** Press the power button on the front panel of the inverter to turn it on or off.
- **Remote Operation:** If an optional remote switch is connected, use the switch to power the inverter on or off.

### 5.2. Digital Display

The built-in digital display provides real-time information:

- **DC Volts:** Shows the current input voltage from your battery bank.
- **Output Power:** Displays the current AC power being drawn by your connected appliances.

### 5.3. USB Port Usage

The 2.1A USB port can be used to charge USB-powered devices such as smartphones and tablets. Simply plug your device's USB charging cable into the port.

## 6. MAINTENANCE

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- **Regular Inspection:** Periodically check all cable connections for tightness and corrosion.
- **Cleaning:** Keep the inverter's ventilation openings clear of dust and debris. Use a dry cloth to clean the exterior. Do not use liquid cleaners.
- **Battery Health:** Ensure your battery bank is properly maintained and charged to prolong the life of both the batteries and the inverter.

## 7. TROUBLESHOOTING

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The Xantrex PROwatt SW 1000 Inverter includes several protection features that may cause the unit to shut down or alarm. Refer to the digital display for specific status indicators.

Issue	Possible Cause	Solution
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Issue	Possible Cause	Solution
Low Voltage Shutdown (10.5 Vdc)	Battery voltage too low.	Recharge or replace battery. Reduce load.
Low Voltage Alarm (11.0 Vdc)	Battery voltage approaching critical level.	Reduce load. Recharge battery soon.
Over Voltage Protection (15.5 Vdc)	Input voltage too high.	Check charging system. Disconnect inverter if voltage remains high.
Overload Shutdown	Connected load exceeds inverter's capacity.	Reduce load. Restart inverter.
Over Temperature Shutdown	Inverter is overheating.	Ensure adequate ventilation. Reduce load. Allow to cool.

## 8. SPECIFICATIONS

Feature	Detail
Model Name	806-1210
Continuous Wattage	1000 watts
Surge Wattage	2000 watts
Input Voltage	12 VDC
Output Voltage	120 VAC
Output Frequency	60 Hz
Output Waveform	Pure Sine Wave
USB Output	2.1A
Product Dimensions	8.7 x 13.4 x 3.5 inches
Item Weight	7.2 pounds
Operating Temperature	32°F – 104°F (0°C – 40°C)

## 9. WARRANTY & SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official Xantrex website. Extended protection plans may be available for purchase.

**Legal Disclaimer:** *Used Item. Tested upon removal from vehicle. If unhappy with purchase simply return for refund.*