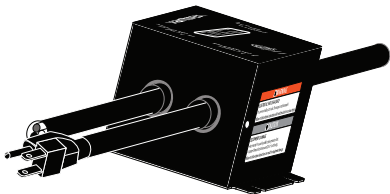


PROwatt SW Auto Transfer Switch Owner's Guide

PN: 808-0915 <http://www.xantrex.com>



DANGER

HAZARD OF FIRE, ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

This Xantrex PROwatt SW Auto Transfer Switch Owner's Guide is in addition to, and incorporates by reference, the relevant product manuals for each product in the power system. After reviewing this guide you must read the relevant product manuals. Unless specified, information on safety, specifications, installation, and operation is as shown in the primary documentation received with the product. Ensure you are familiar with that information before proceeding.

Failure to follow these instructions will result in death or serious injury.

Exclusion for Documentation

UNLESS SPECIFICALLY AGREED TO IN WRITING, SELLER (A) MAKES NO WARRANTY AS TO THE ACCURACY, SUFFICIENCY OR SUITABILITY OF ANY TECHNICAL OR OTHER INFORMATION PROVIDED IN ITS MANUALS OR OTHER DOCUMENTATION; (B) ASSUMES NO RESPONSIBILITY OR LIABILITY FOR LOSSES, DAMAGES, COSTS OR EXPENSES, WHETHER SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL OR INCIDENTAL, WHICH MIGHT ARISE OUT OF THE USE OF SUCH INFORMATION. THE USE OF ANY SUCH INFORMATION WILL BE ENTIRELY AT THE USER'S RISK; AND (C) REMINDS YOU THAT IF THIS MANUAL IS IN ANY LANGUAGE OTHER THAN ENGLISH, ALTHOUGH STEPS HAVE BEEN TAKEN TO MAINTAIN THE ACCURACY OF THE TRANSLATION, THE ACCURACY CANNOT BE GUARANTEED. APPROVED CONTENT IS CONTAINED WITH THE ENGLISH LANGUAGE VERSION WHICH IS POSTED AT [HTTP://WWW.XANTREX.COM](http://WWW.XANTREX.COM).

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Important Safety Information

Misusing or incorrectly connecting the external PROwatt SW Auto Transfer Switch may create hazardous conditions for users or damage the equipment. Read the following safety instructions and pay special attention to all Danger, Warning and Caution statements in the guide. Danger, Warning, and Caution statements identify conditions that may result in loss of life or personal injury. Notices identify conditions or practices that may damage the unit or other equipment.

DANGER

ELECTRICAL SHOCK AND FIRE HAZARD

- Use a qualified installer or technician/electrician only. Consult your RV/motor home/vessel dealer for guidance.
- Keep the auto transfer switch out of reach of children and pets.
- Do not expose the auto transfer switch to moisture, rain, spray, or snow. For marine application, use a drip shield (PN: 808-1050).
- Do not operate the auto transfer switch if it has been damaged in any way.
- Do not disassemble the auto transfer switch. There are no user-serviceable parts inside.
- More than one live circuit – disconnect all sources of supply before installing or servicing.
- This unit employs components that tend to produce arcs or sparks – To prevent fire or explosion, do not install in compartments containing batteries or flammable materials.
- Do not connect grounding conductors to any neutral terminals; doing so defeats ground-fault protection and may violate installation codes.

Failure to follow these instructions can result in death or serious injury.

WARNING

ELECTRICAL SHOCK AND FIRE HAZARD

- Use with PROwatt SW inverter only.
- For electrical connections, use stranded copper (Cu) wire only.
- Continuous load current not to exceed 100 percent of transfer switch current rating
- Tungsten filament load not to exceed 30% of switch current rating.

Failure to follow these instructions may result in death or serious injury.

NOTICE

EQUIPMENT DAMAGE

- Not intended for use with parallel engine generator (sets).
- This switch will not transfer if internal overcurrent device opens due to fault.

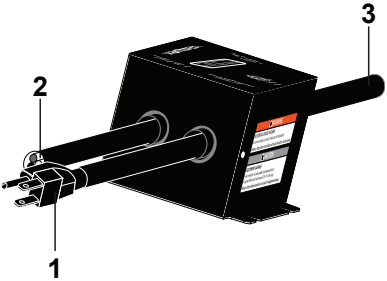
Failure to follow these instructions may result in equipment damage.

Introduction

Thank you for purchasing the PROwatt SW Auto Transfer Switch (PN: 808-0915), an automatic AC power transfer switch that automatically switches between primary and secondary AC input sources to power a single AC output circuit.

The auto transfer switch automatically toggles between AC power from the PROwatt SW inverter and AC power from another AC source such as utility (shore power) to transfer to a single AC output such as a qualified load via a branch circuit.

Figure 1 Features



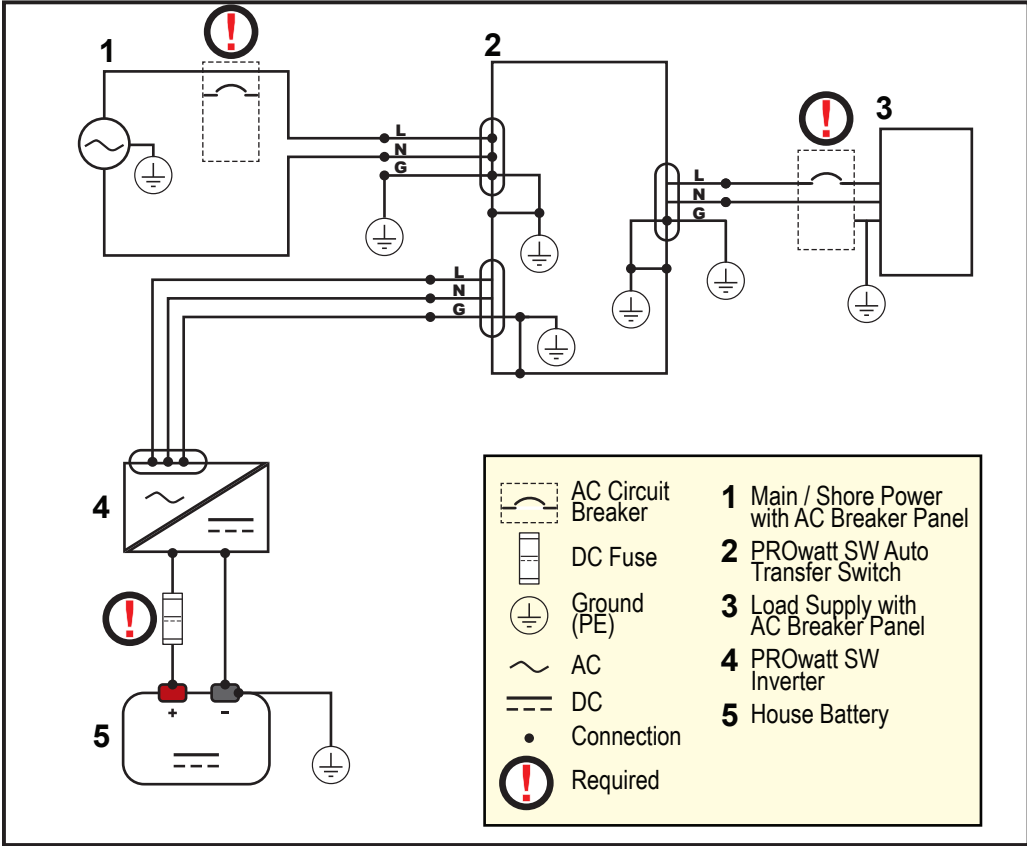
1	AC INPUT 1 CONNECTS to PROWATT SW INVERTER
2	AC INPUT 2 CONNECTS to an AC UTILITY SOURCE
3	AC OUTPUT CONNECTS to LOAD

Installation/Operation

NOTE

- Use a qualified installer or technician/electrician. Consult your RV/motor home/vessel dealer for guidance.
 - Use stranded 14 AWG min. copper (CU) wiring only for AC connections.
1. Disconnect or turn off all power sources prior to installation.
 2. Connect the **AC Output** (loads) cable to an input branch circuit such as a 15A maximum circuit-protected load sub-panel in your RV or motor home/vessel.
 3. Connect the **AC Input 1** cable to your PROwatt SW inverter **only**.
 4. Connect the **AC Input 2** cable to a 15A maximum circuit-protected mains supply output branch circuit such as a utility sub-panel in your RV or motor home/vessel.
 5. Turn on all power sources.

Figure 2 Connection Diagram



SPECIFIC CIRCUIT BREAKER MANUFACTURER AND TYPE LISTING

When the transfer switch is protected by a circuit breaker (of a specific manufacturer, type, and ampere rating), determine the circuit breaker's compatibility by making sure it is suitable for use in circuits capable of delivering the short-circuit current at the maximum voltage stated below:

- Short Circuit Current (RMS Symmetrical Amperes X 1000) : 10
- Voltage (Volts AC Maximum): 240
- Rating (Amperes): 15

Specifications

NOTE: Specifications are subject to change without notice.

AC input voltage and frequency	120 VAC 60 Hz
AC input current	15 A (max)
AC output voltage and frequency	120 VAC 60 Hz
AC output current	15 A (max)
Transfer time: Utility AC to Inverter Inverter to Utility AC	< 120 ms < 20 ms
NOTE: Transfer to inverter is initiated when the utility AC voltage is less than 80 VAC.	
Dimensions (L×W×H)	96×75×70 mm 3 ²⁵ / ₃₂ × 2 ³⁰ / ₃₂ × 2 ²⁴ / ₃₂ in.
Weight	0.64 kg (1.4 lbs.)