



Powering the RV Adventure

7100 SERIES POWER CENTER OWNER OPERATION GUIDE

Congratulations on the purchase of your new Parallax Power Supply product!

The Parallax 7100 series electronic switch mode power converters have been designed to give safe, reliable, and maintenance-free service.

We hope it provides many years of enjoyment.



Listed for RV use in the U.S.A. and Canada

GENERAL INFORMATION

The Parallax Power Supply 7100 series power converter is a solid-state electronic power supply and is maintenance-free. These revolutionary RV power converters utilize technology developed for power supplies in computers that provides a clean and stable, voltage-regulated output while also providing safety features designed to help protect the converter against over-temperature and output overload.

The Parallax 7100 series electronic power converter has been tested to comply with stringent safety standards and is Intertek/ETL listed.

Refer installation and servicing of this product to qualified service personnel. Technical or service information is provided solely for use by licensed electricians and certified RV technicians. No endorsement of technical expertise is expressed and/or implied. User assumes all liabilities arising from use of this information.

120-VOLT AC PANELBOARD

The 120-volt AC panelboard section of the 7100 series is located behind the decorative door in the upper left-hand corner. This section contains the 120-volt AC main and branch circuit breakers for your RV. One of the breakers controls the 120-volt power to the 12-volt converter section located in the lower half of the 7100.

Check the breaker identification label below each breaker for what each branch circuit breaker controls.

If the 7100 series DC power converter is not working, first confirm the RV supply or “shoreline” cord is plugged into a live circuit. Then check all the 120-volt breakers in the panelboard to make sure they are “on”. If a breaker is tripped, follow the instructions below to reset the breaker. If the breaker trips again, consult an electrician or certified RV technician.

The 120-volt circuits may be turned on by flipping the breaker handle up to the “on” position or off by flipping the handle to the “off” position. To reset a tripped breaker, move handle to off then on.

CONVERTER OPERATION

The Parallax 7100 series electronic power converter is designed to supply the nominal 12-volt filtered DC power for all 12-volt operated devices encountered in RV service. Although the converter is an excellent battery charger, the converter does not require a battery to be connected to it for proper operation.

Caution: *When installing a battery, always verify wiring polarity. Connecting a battery with reverse-polarity wiring will blow the power converter main fuses located on the 12-volt DC distribution fuse block.*

If the 12-volt load exceeds the converter output rating, the output voltage will drop to prevent any further increase in current. Turn off some DC lights or appliances and the output voltage will automatically recover. The same will occur if the converter exceeds safe operating temperature limits. Check to see that the converter's air circulation is not blocked, or turn off some of the 12-volt load.

If any 12-volt appliance fails to operate, check your RV's 12-volt distribution fuse block located behind the decorative front door in the upper right hand corner of the converter and inspect all fuses. If a fuse is open or “blown”, replace it with the same size fuse (never install a larger fuse). If the fuse opens again, have an electrician or certified RV technician locate the circuit trouble. Replace blown fuses with Littelfuse type 257, Bussman type ATC, or Possing Electronic type ATP fuses only.

CONVERTER COOLING SYSTEM

The 7100 series electronic fan cooling system contributes to long converter life and trouble-free operation. The fan turns on automatically when required to cool the electronic components in the converter. The amount of airflow required is necessary to properly cool the converter components and the associated “air sound” generated may be audible in quiet environments.

MOUNTING LOCATION & CLEARANCES

The 7100 series converter is designed for indoor use only.

DO NOT mount in harsh environments; avoid areas where high levels of dust, dirt, or moisture may occur.

DO NOT mount the power converter in battery compartments or in areas where flammable materials are stored.

Mount to a vertical surface with the front of the converter open to the living area of the RV.

Provide a minimum of 22 inches clearance to the front of the converter. Leave adequate room behind the converter for wire routing and air intake for the fan located at the rear of converter.

DO NOT mount in zero-clearance compartments; overheating and thermal shut down will result.

INPUT SUPPLY REQUIREMENTS

Connect to a 120 VAC 60HZ 3-wire with ground supply. DO NOT use circuit protection larger than 30-ampere.

CONVERTER TO BATTERY WIRING

The battery supply wire from fuse block terminal “POS +” to the battery must be of adequate size and rating and must be protected within 18 inches of the battery with an appropriately rated fuse or breaker.

Objective: The objective of this guide is to help direct your troubleshooting time to areas of the unit that will help you determine if the converter is functioning properly.

