

Introduction

The 6700 series power converter installed in your RV is the heart of the 12-volt DC electrical system. It is manufactured with pride by Parallax Power Supply.

We are confident that it will give you outstanding performance for many years. If you have any questions about this product, please contact a customer service representative at the address or phone number listed below:

Parallax Power Supply
100 West 11th Street, Suite 100
Anderson, IN 46016
Ph (800) 443-4859 Fax 765-608-5235

Be sure to check our website at www.parallaxpower.com for information regarding Parallax Power Supply products.

General Information

Primarily the 6700 Series converts the 125 volt AC power into 12V filtered DC to operate all 12 volt operated lights, fans, radio, TV, water pump, etc. with or without a battery connected.

All 6700 models will charge your RV battery (if installed) while the RV is plugged into shore power.

All 6700 Series converters also contain the 125-volt AC breakers that protect AC appliances. This includes but is not limited to AC receptacles, power converter and roof air conditioners.

All user functions (resetting breakers or replacing 12-volt DC fuses) are accessible from the front panel of the 6700 series.

Operation

The power converter operates only when the RV is plugged into a 125 volt AC power. All 6700 Series converters are rated for use with a standard 30 amp 125-volt RV type shore-line cord.

The 6700 series employs over-temperature protection, if the unit is loaded beyond the converter output current rating listed on the front panel, or the ventilation slots are obstructed, the converter's DC output may shut off then automatically turn back on when it has cooled down.

To operate 12V DC appliances from the converter simply plug in the shoreline cord from the RV to a 125 volt 30-amp supply. If the converter does not come on check to see if the 125-volt breakers on the front panel are switched on.

Converter Cooling System

The 6700 series includes an "on-demand" fan cooling system. The fan will cycle on and off as needed to cool the electronic components in the converter. Fan cycle time and duration are determined by the converter's DC current load and the ambient temperature of the converter. You may hear "air noise" when the fan operates. This is normal. The fan speed and air volume necessary for proper converter cooling has been chosen to promote long converter life and trouble free operation.

Operation from Battery Power

When the shore-line cord is unplugged or the converter AC breaker is off the 12 volt system will automatically operate from the RV battery.

Note: If a battery is not connected, the 12-volt system will only work when the converter is plugged into shoreline power.

Automatic Battery Charger

The 6700 Series charger is fully automatic and regulated. The full nameplate DC current rating of the converter is available for battery charging. This means DC current not used for 12-volt RV loads is always available to recharge and maintain the battery. The 6700 Series charger will only supply the amount of current allowed or "requested" by the batteries.

Batteries "gas" as they are discharged and charged, causing the fluid level in the battery to evaporate. If the fluid level drops below the plates in the battery, exposing them to the air, the performance will be greatly reduced eventually causing the need for battery replacement.

Always follow the battery manufacturer's routine maintenance instructions.

Note: Sealed or maintenance free batteries do not require fluid level checks. During long periods of non-use Parallax Power Supply recommends plugging in the RV shoreline over night once a month to maintain the life of the battery.

If your battery is discharged the converter may exceed the maximum current rating during the recharge period. If this occurs the converter will automatically reduce its output voltage to protect its self. Under certain conditions the converter may exceed the maximum temperature allowed and may shut off for a brief period then return to the task of recharging the battery. This condition should be of no concern. This is called cycling and will continue until the recharge load drops below the nameplate rating. To help the recharge process, reduce the 12-volt loads (lights, motors, etc.) as much as possible.

Note: During battery replacement observe battery polarity. If the battery polarity is reversed the battery fuse will "blow" on the front panel of the converter. When any fuse is replaced always replace with same fuse rating as marked on front panel. **DO NOT OVER FUSE.**

Input Supply Requirements

This unit is suitable for direct connection to a **30** Ampere, 125 Volt AC Recreational Vehicle power supply assembly.

125 VAC Electrical installations shall comply with Article 551 and other applicable sections of the National Electric Code.

Wire strain relief fittings must be installed and acceptable for the wire type used. Chassis "knockouts" are provided for strain relief fittings in trade sizes 3/4" and 1/2".

Refer to the "125 VAC Wiring Compartment" label on the top of the 6700 series for circuit identification and wiring connection information.

Mounting Location

The 6700 series converter is designed for **Horizontal Mounting and Indoor Use Only!**

Do not mount in harsh environments. Avoid areas where high levels of dust, dirt, or moisture may occur.

Do not mount in zero clearance compartments! Over-heating and thermal shut-down will result.

Do not mount the power converter in battery compartments or in areas where flammable materials are stored!

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

125 Volt AC Power Distribution Section

The 6700 series contains the vehicles 125-volt AC breakers that protect the current rating of the AC wiring of appliances and outlets.

If a breaker trips because of an overload, reset it by moving the handle completely to the off position and then back to the on position. NOTE: If the breaker trips again, a qualified electrician or RV technician should be contacted to fix the problem.

DC Distribution Section

12 VDC installations shall comply with ANSI/RVIA 12V. Refer to the "12 Volt DC Wiring" label on the back panel of the 6700 series for 12 Volt wiring lead identification.

DC FUSES

Fuse holders for replaceable automotive type fuses are located on the upper right hand section of the faceplate. Maximum fuse size and circuit identification are provided to the left of the fuse holders. To maintain safe and correct operation use Littelfuse type 257, Bussman ATC, or equivalent.

Specifications: Series 6700

Panel Input: 125 volts AC, 60 HZ, 30 amps

Dimensions: 7.0" H, 13.75" W, 5.5" D

Faceplate: 7" H x 13.75 W" Cut-out: 6.25" H x 12.75" W

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

NO USER SERVICEABLE PARTS INSIDE.

Refer servicing to qualified service personnel.

011-6700-001 Rev B



A Division of Connecticut Electric, Inc.

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www.parallaxpower.com

6700 Series Electronic Power Converter Owner's Manual



Listed for Recreational Vehicle use only in the USA and Canada.

DO NOT DESTROY THIS MANUAL

For future warranty reference record:

Date of RV purchase _____

Warranty Statement

Parallax Power Supply warrants each converter to be free from defects in materials or workmanship under normal use and service, and limits the remedies to repair or replacement.

This warranty extends for two years from the date of retail purchase within the continental limits of the United States and Canada to the original owner only.

If a problem should occur with your converter within the first 24 months of purchase, please contact a dealer that handles warranty on your brand of RV.

This warranty does not cover damage due to improper installation, abuse or accidents.

Download the **Parallax Power Supply Warranty Policy** at:

<http://www.parallaxpower.com/warranty.htm>