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# 7400 Series Converter/Battery Charger Owner's Manual



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

51092309-001 Rev. H 2/25/2009

**7400 Series Specifications:**

Parallax Model Number	A.C. Input		D.C. Output		Dimensions			Weight	Cooled Fan	Options	Notes
	Volts	Watts	Volts	Amps	Height	Width	Depth				
7430	105-130	13.8 max. @ no load	13.6 min. @ full load	30	4.125"	8.0"	11.5"	7.1 lbs.	Yes	--	2
7440	105-130	13.8 max. @ no load	13.6 min. @ full load	40	4.125"	8.0"	11.5"	7.1 lbs.	Yes	--	2
7445	105-130	13.8 max. @ no load	13.6 min. @ full load	45	4.125"	8.0"	11.5"	7.2 lbs.	Yes	--	2
7455, 7455T	105-130	13.8 max. @ no load	13.6 min. @ full load	55	4.125"	8.0"	11.5"	7.5 lbs.	Yes	T	1,2
7465	105-130	13.8 max. @ no load	13.6 min. @ full load	65	4.125"	8.0"	11.5"	7.5 lbs.	Yes	--	2

Option Codes:  
T- Battery saver timer system  
Notes:  
1 \* 14.2 VDC @ No Load, 13.6 VDC @ No Load after optional timer (option "T") has completed the boost cycle.  
2 Complies with FCC Class B radiation limits.

# 7400 Series Owner's Manual

Congratulations on the purchase of your new RV. We hope you have many years of enjoyment. Your new RV is equipped with an advanced 120-volt to 12-volt power converter. Your Parallax 7400 series electronic switch mode power converter has been designed to give you many years of trouble-free use.

These revolutionary RV power converters utilize technology developed for power supplies in computers that provides a clean, stable, voltage regulated output while also providing safety features designed to help protect the converter against over-temperature and output over-load.

If you have any comments, please contact Parallax's Customer Service Representative at the address, fax or phone number below.

Parallax Power Supply

Ph: (800) 443-4859

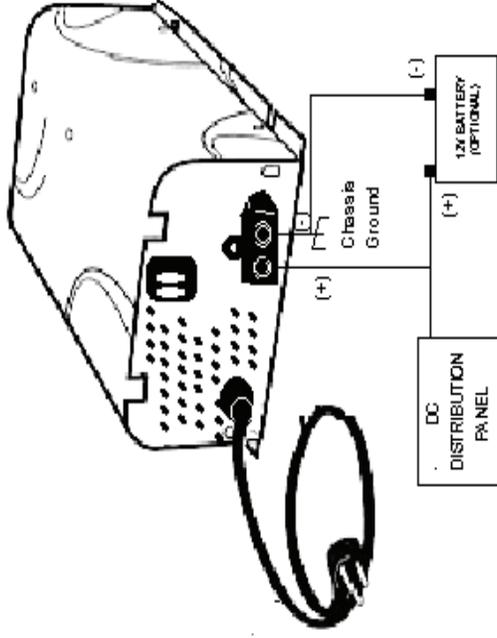
FAX: (765) 608-5235

## General Information

The Parallax 7400 series is a regulated 12-volt power supply and is maintenance free. You may not even know it is working except for the fact that your batteries are always charged, and your 12-volt lights and appliances always work. If any 12-volt appliance fails to operate, first locate your RV's 12-volt distribution fuse block and inspect all fuses. If a fuse is open or "blown" replace it with the same size fuse (never install a larger fuse).

## Typical Connection Diagram:

### 7400 SERIES CONVERTER TYPICAL CONNECTIONS



**CAUTION: OBSERVE POLARITY WHEN CONNECTING BATTERY(S). REVERSE POLARITY WILL BLOW CONVERTER OUTPUT FUSES.**

## Warranty Statement

Parallax warrants its products to be free from defects in material 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 purchase and is valid only to the original owner and within the continental limits of the United States and Canada.*

*If a problem should occur with your Parallax converter within the first twenty-four months after purchase, please contact a dealer that handles warranty on your brand of RV. No user serviceable parts inside.*

Download the **Parallax Power Supply Warranty Policy** at: [www.parallaxpower.com/warranty.htm](http://www.parallaxpower.com/warranty.htm)

## Parallax Power Supply

100 West 11<sup>th</sup> Street, Suite 100  
Anderson, IN 46016  
(800) 443-4859

## Mounting Location

The 7400 series converter is designed for indoor use only!

**Do not mount in engine compartment or other harsh environments; avoid areas where high levels of dust, dirt, or moisture may occur.**

**Do not mount in battery compartments or in areas where flammable materials are stored.**

## Mounting Position

The 7400 fan cooled converters may be mounted in any position as long as adequate ventilation is allowed for fan intake and exhaust.

## Mounting Clearances

**Provide a minimum of three inches to the front and rear of the converter. Do not mount in zero clearance compartments; overheating and thermal shut down will result.**

## Input Supply Requirements

Connect to a 120VAC 60HZ 3 wire grounded supply with no larger than 20 ampere circuit protection.

## Wire Routing

**In order to minimize radio and T.V. interference, avoid routing supply and output wiring across fan intake or adjacent to ventilation slots on rear of converter.**

## General Information—continued

If the fuse opens again, have an electrician or certified RV technician locate the circuit trouble.

If the 7400 series 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 your RV distribution panel to make sure they are “on”. If a breaker is tripped, follow the instructions to reset the breaker. If the breaker trips again, consult an electrician or certified RV technician.

## Converter Operation

The Parallax 7400 series electronic power converter has been tested for the utmost safety, it is ETL listed and output short-circuit protected. The 7400 series is also FCC Class B certified to minimize interference with other electrical equipment as some power converters do. Some interference could occur from accumulations of multiple sources.

The 7400 Series electronic power converter is designed to supply the nominal 12 volt filtered D.C. 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(s) always observe polarity. Connecting a battery with reverse polarity will blow the power converter output polarity protection fuses.

### *Converter Operation –continued*

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 lights or appliances and the output voltage will automatically restore. The same will occur if the converter exceeds safe operating temperature limits. Check to see that the converters air circulation is not blocked, or turn off some of the 12-volt load.

### **Timer Option (Option T)**

If the converter is a “T” option unit, it has been factory set at a nominal 14 volts output for battery charging. The optional timer circuit is designed to lower charging voltage to approximately 13.6 volts after the converter has been connected to shoreline power for 13 hours. (Refer to the model label on the top of the unit to determine if your converter has this option.) Note – The Timer option components cannot be added to a non option “T” unit.

This abrupt drop in voltage is designed to help minimize battery “out gassing” during extended periods of operation on shoreline power. When the shoreline power is disconnected the timer will reset. The next time shoreline power is applied the battery voltage will again shift up to the 14 volt setting for another 13 hrs., only to again drop to the nominal 13.6 volt point. This method can help minimize battery “out gassing” resulting from seasonal battery temperatures.

On non-maintenance free batteries check the water level often. Do not allow the battery cell plates to become exposed to the air. Poor battery performance will result.

### *Timer Option—continued*

Parallax recommends disconnecting batteries during extended periods of inactive use or storage following the battery manufacturer’s recommendations for proper maintenance.

### **Battery Charger Performance**

The National Electric Code requires that power converters for RV service use be marked with an average charge rate, as part of the total continuous output rating. Average charge rate will depend on several variables such as, condition of the battery(s), temperature, and the length of time the battery(s) are connected to the converter. In actual RV use the engine alternator and on board motor generators are also possible sources of charging currents.

With all these variables it is difficult to determine the average charge rate from the converter. In most cases the average rate will be very small; in the order of a few hundred milliamps (1 AMPERE= 1,000 MILLIAMPS). Your Parallax 7400 Series power converter is capable of delivering its **full rated output** to the battery(s) if needed, but will taper off to a few hundred milliamps when the battery(s) are at full charge.

### **Converter Cooling System**

The 7400 electronic fan cooling system is the key to long life and trouble free operation. The fan turns on automatically when required to cool the electronic components in the converter. The amount of air “flow” required is necessary to properly cool the converter components and the associated “air sound” generated may be audible in quiet environments.