



Linear Converter F.A.Q.'s

Q. Can I leave my linear converter connected to AC power indefinitely?

A. Yes. However, your “wet-cell” battery or batteries will still require regular and routine maintenance to prevent premature battery failure.

Q. I think my converter is overcharging the batteries. Isn't the charger supposed to shut off the current when the battery is fully charged?

A. No. The battery or batteries control whether or not current flows into them by their voltage; a lower voltage (discharged) battery draws more current from the converter, while a higher voltage (charged) battery will draw less current. Unless the “float-voltage” goes above 14.5 Volts DC, it is unlikely the charger is overcharging.

After the batteries are fully charged some current is still needed to counter the batteries self discharge, so the converter perpetually trickle-charges the batteries. Non-sealed batteries should be checked for fluid level at least once a month.

A defective battery will “mimic” the symptoms of “over-charging” .The “effective” voltage of the battery will remain low and the battery will continue to charge. **Refer to the Owner/Operator manual for additional information.**

Q. Can I connect “gel” or “AGM” batteries to my linear converter?

A. Yes, Our “float- voltage” is set at 13.8 volts DC. This should present no problems to these types of batteries. However, always check the battery manufacturer specifications for voltage recommendations.

Q. What is the maximum charging rate of my linear converter to my batteries?

A. The charger circuit output is capable of a maximum of 10-12 amperes. All DC load devices connected to the accessory terminals and the battery will share this current.

Q. How fast may I expect my batteries to recharge?

A. The time required is dependent upon several variables. The number of batteries in the system, how much the batteries have been discharged, and other DC loads connected to the accessory terminals that may be powered on and using available recharge current.

Q. I'm hearing a “clicking” or “pinging” sound from my converter. What's going on?

A. The likely cause is the auto-reset breaker on the charger output cycling on and off. The DC load on the charging output exceeding the available output of the charge circuit causes this condition.

Turn off accessory devices or connect a “stand alone” battery charger to bring the battery up to less than a 10- ampere draw.

Q. What is the difference between “filtered” and “unfiltered” DC load circuits? Why is this important?

A. The linear type converter output is not a filtered DC output. Therefore, any DC load circuits that need a “pure” DC voltage should be attached directly to the battery line or the fuse or fuses labeled accessory fuses. Examples of some items that may require filtered DC would include the 12 VDC TV, radio, computer power ports, and some fluorescent lights. DC devices that can use “unfiltered” voltage would include 12-volt incandescent lighting, motors, some types of pumps, etc. **Always refer connection of DC load devices to qualified service personnel.**

Q. I’m hearing a “hum” from my converter. Is this normal?

A. Yes, it is normal. The power transformer in the converter section will naturally produce some hum.

Q. My linear series converter gets very hot to the touch. Is something wrong?

A. No. It is a normal function of the linear power transformer. The power transformer will “turn off” if design limits for temperature are exceeded.

Q. The cooling fan in my converter cycles on and off at random times. Should it always be on?

A: No. A thermostat (usually 140-degree F.) controls the cooling fans in our products. The fan should only operate “on demand”. This is a function of the DC amperage load and ambient air temperature.

Q. I have heard there is an “electronic” upgrade available for my linear converter. Where can I get more information?

A. Our **7300 Series** upgrades are only available for 6300 Series model numbers. The upgrade kits provide 45 or 55 amp DC output capability. Upgrade part numbers **7345RU** or **7355RU**. Check with your dealer or parts supplier for additional information and pricing.