

Practicing Good Load Management

The electrical equipment installed in your coach requires more power than Shore Power or the Generator can supply if all loads were turned on at one time. Normally, you do not run air conditioners and heaters at the same time. To prevent overloading your system and causing breakers and the Inverters to trip, you must practice good Load Management. Load Management is simply operating equipment so as not to exceed the amp limit for the source of power you are using per phase. See the chart below.

| Power Source | Available Amps Per Phase |
|--------------------|--------------------------|
| Generator | 60 |
| 50 Amp Shore Power | 50 |
| 30 Amp Shore Power | 15 |
| 15 Amp Shore Power | 7 |
| Inverting | 35 |

The amp ratings for the electrical loads in the coach are as follows:

- Each Air Conditioning Unit ----- 15 Amps
- Dryer ----- 15 Amps
- Electric Water Heater ----- 16.5 Amps
- Cooktop ----- 12 Amps
- Indirect Lights (Rope Lights) --- 12 Amps
- Each Electric Heater ----- 8 Amps
- Refrigerator ----- 7 Amps

As you operate equipment in your coach, the following suggestions and recommendations will help you:

Always leave the Power Management System on.

The only way to verify Shore Power, Generator Power or Inverting (House Battery Power) is by the “**AC In Good**” green lights and the yellow “**Inverting**” light on the Inverters.

Whenever possible, use the Aqua-Hot™ Diesel Heat to heat your domestic hot water. The electric heater uses 16.5 amps vs the Diesel Heat on the Aqua-Hot™ which uses less than 4 pints of fuel per hour if the burner ran continuously.

The Generator will use 1.57 gallons of fuel per hour with a 60 amp load per phase (fully loaded).

The Generator will use 0.8 gallons of fuel per hour with a 30 amp load per phase (half loaded).

Always turn off major electrical loads when switching **to** or **from** Shore or Generator Power.

Always turn off major electrical loads when switching **between** Shore or Generator Power.

Run only one air conditioner on each Inverter while inverting.

While inverting, the Generator will “Auto Start” in about two to four hours while operating one air conditioner on each Inverter.

While inverting, the Generator will “Auto Start” in about four to six hours while operating only one air conditioner on either Inverter.

The Inverters are “load” dominant and will take power from the House Batteries if the loads you turned on exceed the limit of the Shore Power or the Generator.

Do not “load up” all of the available Shore Power or Generator Power for extended periods of time. Leave some power available for the Inverters to charge the House Batteries.