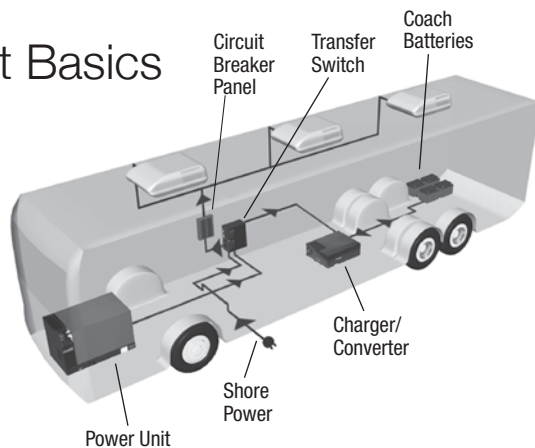




## IV: RV Generator Operation

### Load Management Basics

In order to get the most out of your Cummins Onan generator you need to understand how it interacts with the electric system of your RV. At a very high level, your generator is connected via the circuit breaker panel to a wide variety of loads. Two of the most important loads that will impact the performance of your generator are the air conditioner(s) and the converter or battery charger.



To understand how battery chargers, automatic generator start systems and other baseloads affect your generator, you need to be aware of three things:

- 1 Your generator's power capability
- 2 How to manage electrical loads
- 3 Battery charging times

## Determining Your Generator's Power Capability

To determine what your generator can power, use the chart below to estimate the total combined watts of all the appliances, lamps, battery chargers, air conditioners and other electrical products you typically use at the same time. (All electrical appliances and lights are labeled with their power requirements expressed in watts or amps). You can use any number of appliances simultaneously, as long as their combined wattage doesn't exceed the electrical output of your Cummins Onan generator or your RV's circuit breaker rating.

Common Power Requirements		
Appliance	Average Required Wattage	Amps
Air Compressor (1hp)	900-1800	7.5-15
Air Conditioner	600-3500	5-29
Battery Charger	Up to 3000	6-28
Blender	450-700	3.3-5.8
Broiler	1400-1700	11.6-14
Broom/Vacuum	1000-1440	8.3-12
CD/mp3 player & Speakers	85	0.7
Coffeepot	900-1200	7.5-10
Computer	60-270	0.5-2.25
Laptop	20-50	0.16-0.41
Converter	500-1000	4-8
Curling Iron	20-50	0.16-0.41
Dishwasher	1200-2400	10-20
Drill	250-1000	2-8
Electric Blanket	60-100	0.5-0.8
Fan	10-175	0.08-1.45
Flat Iron	40-80	0.3-0.6
Frying Pan/Wok	1000-1350	8-11.25
Game Console	19-200	0.16-1.6
Hair Dryer	1200-1875	10-15.6
Iron	1000-1800	8-15
Light bulbs	13-100	0.1-0.8
Microwave/Convection Oven	750-1100	6.25-9.2
Radio	50-200	0.4-1.6
Refrigerator	400-1000	3.3-8
Shaver	15-20	0.12-0.16
Space Heater	750-1500	6.25-12.5
Stove	900-2500	7.5-20.8
Television	43-600	0.35-5
Toaster	800-1400	6.6-11.6
VCR/DVD/Blu-ray player	6-30	0.05-0.25
Washer/Dryer	350-500/1800-5000	3-4/15-42
Water Heater	1000-1500	8-12.5
Water Pump	250-1100	2-9.16