GREENPOWER™

How to select right gas generator set?

Power Management

Power Calculation

Follow these simple steps to calculate the running and starting watts necessary for your purposes.

1. Select the electrical devices you plan on running at the same time.
2. Total the running watts of these items.
3. This is the amount of power you need to keep your items running.
4. Identify the highest starting wattage of all devices identified in step 1. Add this number to the number calculated in step 2. Surge wattage is the extra burst of power needed to start some electric driven equipment. Following the steps listed under “Power Management” will guarantee that only one device will be started at a time.

Use the following formula to convert voltage and amperage to watts:

Volts x Amps = Watts

To prolong the life of your generator and attached devices, follow these steps to add electrical load:

1. Start the generator with no electrical load attached.
2. Allow the engine to run for several minutes to stabilize.
3. Plug in and turn on the first item. It is best to attach the item with the largest load first.
4. Allow the engine to stabilize.
5. Plug in and turn on the next item.
6. Allow the engine to stabilize.
7. Repeat steps 5-6 for each additional item.

Warning

Never exceed the generator capacity when adding loads.

Notice

If frequent lightening is occurring around your neighborhood, it's a good idea to turn off your air conditioner. Power surges from lightning can overload the compressor and damage the air conditioner.

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Power Management Chart

Use the chart to determine approximate wattage requirements for your equipment.

Starting watts can exceed 3 times the running watts. The values in the following table are approximate. Refer to your tool or appliance for actual wattage consumption.

Essentials	Running Watt	Starting Watt
Light bulb 100W	100W	-
Refrigerator / Freezer	1200W	2400W
Freezer	100W	300W
Sump Pump	600W	1800W
Well Pump 1HP	2000W	4000W
Water Heater	4000W	-
Security System	180W	-
AM / FM Radio	50W	-
Garage Door Opener 1/2HP	500W	600W
Battery Charger 12V DC	110W	-

Heating / Cooling	Running Watt	Starting Watt
Air Conditioner 12000 BTU	1700W	2500W
Fan	300W	600W
Furnace Fan 1/3 HP	1200W	2000W

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Home Appliances	Running Watt	Starting Watt
Microwave 1000W	1000W	-
Electric range – one element	1500W	-
Electric skillet	1250W	-
Coffee Maker	1500W	-
Clothes Washer	1200W	-

Entertainment	Running Watt	Starting Watt
CD / DVD Player	50W	-
VCR	60W	-
Stereo Receiver	450W	-
Television 27”	200W	-
PC with 17” Monitor	500W	-

Job Site	Running Watt	Starting Watt
Belt Sander 3”	1000W	1500W
Bench Grinder 6”	700W	1500W
Circular Grinder	1500W	1500W
Compressor 1 1/2 HP	1500W	2500W
Edge Trimmer	500W	500W
Hand Drill 1/2”	100W	180W
Lawn Mower	1200W	1800W
Paint Sprayer	600W	1200W
Table Saw	2000W	2000W