



WATTAGE WORKSHEET

When selecting a generator there are a few important features to consider:
Wattage ■ Engine ■ Run Time ■ Starting ■ Mobility

This worksheet will focus on determining your running and starting watt needs. The size of the generator you need depends on your power requirements. Generally, a higher-wattage generator lets you power more items at once.

1 Select the items you wish to power at the same time. Using the chart on the opposite page, fill in the running watts and starting watt requirements on the "Your Power Needs" worksheet.

2 Add the Running Watts of the items you wish to power. Enter this number in the Total Running Watts column.

3 Select the one individual item with the highest number of starting watts. Take this one number, add it to your Total Running Watts, and enter it in the Total Starting Watts box.

EXAMPLE		
Tool or Appliance	Running Watts	Additional Starting Watts
1. Refrigerator	700	2200
2. Television	500	0
3. Furnace	800	2350
4. Sump Pump	1050	2200
5.		
6.		

YOUR POWER NEEDS		
Tool or Appliance	Running Watts	Additional Starting Watts
1.		
2.		
3.		
4.		
5.		
6.		

Total Running Watts

Highest Starting Watts +

Total Watts Needed =

Total Running Watts

Highest Starting Watts +

Total Watts Needed =

With this example you need a generator that produces at least 3050 total running watts and 5400 total starting watts.

I need a generator that produces at least _____ total running watts and _____ total starting watts.

Frequently Asked Questions

How many watts does it take to power basic items in an average size house?
 In a typical home, essential items will average 5000 – 7500 watts of power to run.

What is the difference between running watts and starting watts?
 Running, or rated watts are the continuous watts needed to keep items running. Starting watts are extra watts needed for two to three seconds to start motor-driven products like a refrigerator or circular saw, this is the maximum wattage the generator can produce.

Why is only one starting watt item used to calculate your total starting watt requirement?
 Unlike running watts, starting watts are only needed during the first few seconds of operation. In most cases, only one item will start or cycle at the same time, therefore this is the most accurate estimate.

What if I can't determine the running or the starting watt requirement for a tool or appliance?
 If the running watts are not on the tool or appliance, you may estimate using the following equation: WATTS=VOLTS x AMPS. Only motor-driven items will require starting watts. The starting watts required may be estimated at 1-2x the running/rated watts.

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TOOL OR APPLIANCE	ESTIMATED RUNNING WATTS	ADDITIONAL STARTING WATTS	TOOL OR APPLIANCE	ESTIMATED RUNNING WATTS	ADDITIONAL STARTING WATTS
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Recreational Use



Tailgating/Camping:

Electric Grill	1650	0
AM/FM Radio	100	0
Box Fan - 20"	200	0

Outdoor Light String	250	0
Cell Phone Battery Charger	25	0
Inflator Pump	50	150

Storm / Emergency Use:



Essentials:

Light Bulb - 60 Watt	1650	0
Light Bulb - 75 Watt	100	0
Refrigerator / Freezer	200	2200
Sump Pump - 1/3 HP	800	1300
Sump Pump - 1/3 HP	1050	2200
Water Well Pump 1/3 HP	1000	2200
Electric Water Heater	4000	0

Heating/Cooling:

Space Heater	1800	0
Humidifier 13 gallon	175	0
Furnace Fan Blower - 1/2 HP	500	2350
Furnace Fan Blower - 1/3 HP	700	1400
Window AC - 10,000 BTU	1200	1800
Window AC - 12,000 BTU	3250	3950
Central AC - 10,000 BTU	1500	3000
Central AC - 24,000 BTU	3800	4950
Central AC - 40,000 BTU	6000	6700
Heat Pump	4700	4500

Laundry Room:

Iron	1200	0
Washing Machine	1150	2250
Clothes Dryer - Electric	5400	1350
Clothes Dryer - Gas	700	1800

Kitchen:

Microwave Oven - 625 Watts	625	0
Microwave Oven - 1000 Watts	1000	0
Coffee Maker	1000	0
Electric Stove - 8" Element	2100	0
Dishwasher - Hot Dry	1500	1500
Food Processor	400	0
Toaster Oven	1200	0
Toaster	850	0
Electric Can Opener	168	0

Family Room:

VCR	100	0
Stereo Receiver	450	0

Other:

Security System	500	0
Garage Door Opener - 1/2 HP	875	2350
Curling Iron	1500	0
Hair Dryer - 1250 Watt	1250	0

The above are estimates only. Check your tool or appliance for exact wattage requirements. The wattages listed in our reference guide are based on estimated wattage requirements. For exact wattages, check the data plate or owner's manual on the item you wish to power.

CAUTION:

Operating voltage and frequency requirement of all electronic equipment should be checked prior to plugging them into this generator. Damage may result if the equipment is not designed to operate within a +/- 10% voltage variation, and +/- 3 hz frequency variation from the generator name plate ratings