

EMERGENCY GENERATOR WATTAGE WORKSHEET

WHEN SELECTING AN EMERGENCY GENERATOR YOU NEED TO CONSIDER THE FOLLOWING FEATURES

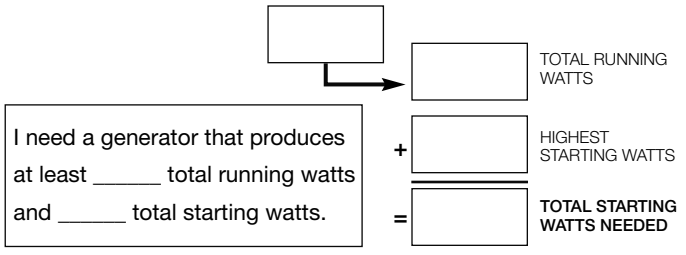
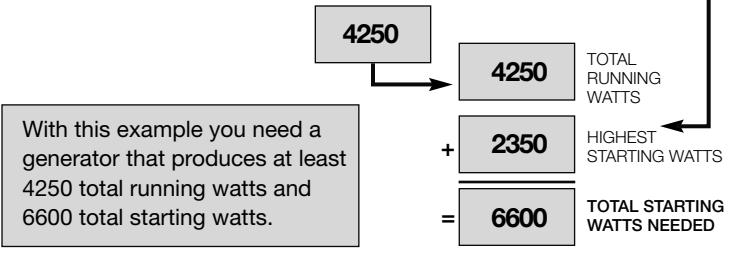
WATTAGE ★ ENGINE ★ RUN TIME ★ STARTING ★ MOBILITY

The Size of your generator depends on your unique power needs that need to be determined before ever purchasing an emergency generator. This worksheet is designed to help you determine the right size generator for your situation.

- 1** Select the items you wish to power at the same time. Using the table on page two of this, document fill in the running watts and additional 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 the total in the Total starting watts box.

EXAMPLE		
TOOL OR APPLIANCE	RUNNING WATTS	ADDITIONAL STARTING WATTS
1. Refrigerator/Freezer	700	2200
2. 1/2 HP Furnace Fan	800	2350
3. Television	500	0
4. Window AC	1200	1800
5. Sump Pump – 1/2 HP	1050	2200
6.		
7.		

YOUR POWER NEEDS		
TOOL OR APPLIANCE	RUNNING WATTS	ADDITIONAL STARTING WATTS
1.		
2.		
3.		
4.		
5.		
6.		
7.		



FREQUENTLY ASKED QUESTIONS

How many watts does it take to power basic items in an average size house?

In an average American home, essential household items will average somewhere around 5000 – 7500 watts of power to run.

What is the difference between running watts and starting watts?

When selecting an emergency generator system, you need to calculate both your running and your starting wattage requirements. Running, or rated watts are the continuous amount of watts needed to continually run your appliances. Starting wattage is the additional amount of electricity required to start commonly found motor-driven products like a refrigerators or other household appliances. When selecting a generator you should factor in the appliances with the highest additional starting watts.

Why is only one additional starting watt item used to calculate your total starting watt requirement?

Unlike running watts, starting watts are only needed during the first couple 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 additional starting watts. The additional starting watts required may be estimated at 1 - 2x the running/rated watts.

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	60	0
Light Bulb – 75 Watt	75	0
Refrigerator/ Freezer	700	2200
Sump Pump – 1/3 HP	800	1300
Sump Pump – 1/2 HP	1050	2200
Water Well Pump – 1/3 HP	1000	2200
Electric Water Heater	4000	0

HEATING COOLING

Space Heater	1800	0
Humidifier – 13 Gal	175	0
Furnace Fan Blower – 1/2 HP	800	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

JOBSITE

JOBSITE

Quartz Halogen Work Light, 300	300	0
Quartz Halogen Work Light, 500	500	0
Quartz Halogen Work Light, 1,000	1000	0
Airless Sprayer – 1/3 HP	600	1200
Reciprocating Saw	960	960
Electric Drill – 3/8", 4 Amps	440	600
Electric Drill – 1/2", 5.4 Amps	600	900

Hammer Drill	1000	3000
Circular Saw – 7-1/4"	1400	2300
Miter Saw – 10"	1800	1800
Planer/Joiner – 6"	1800	1800
Table Saw/Radial Arm Saw – 10"	2000	2000
Belt Sander	1200	2400
Air Compressor – 1/4 HP	970	1600
Air Compressor – 1 HP	1600	4500