

SPORTSMAN[®]

GENERATORS

Generator Purchase Decision Guide

Choose a higher-wattage generator if you need to power more items at one time.

* Refrigerators, heaters, and microwaves require 1-3X more starting power.

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

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

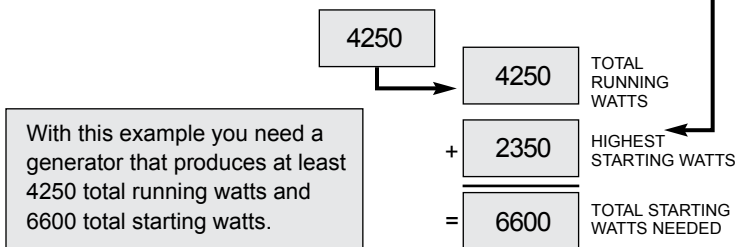
3 Select the one individual item with the highest number of starting watts. Take this one number, add it to your Total Running Watts, and enter it in the Total Starting Watts box.

RUNNING = (rated) watts produced by a generator represents the amount of continuous power output

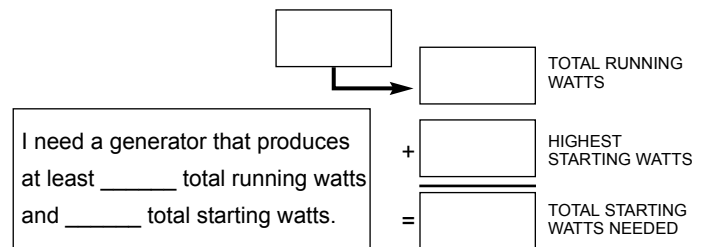
SURGE = (starting) watts produced by a generator represents the amount of temporary bursts of power output required by common tools and appliances for 2 - 3 seconds during start up.

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.		



With this example you need a generator that produces at least 4250 total running watts and 6600 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?

You may estimate using one of the following equations:

Volts x Amps = Watts

Amps / Watts = Volts

Watts / Volts = Amps


IMPORTANT


* Only motor - driven items will require starting watts. Many devices need 1 - 3 X the running/rated watts additional power to start up (Maximum Output Watts), and then require less power (Rated Watts) to run continually. For example, a refrigerator requires 2200 starting wattage with a 700 running wattage, so you would need a generator with at least 2200 watt maximum output to run ONLY a refrigerator.

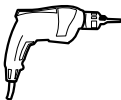
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TOOL OR APPLIANCE		ESTIMATED RUNNING WATTS	ADDITIONAL STARTING WATTS	TOOL OR APPLIANCE		ESTIMATED RUNNING WATTS	ADDITIONAL STARTING WATTS
Recreational Use							
Tailgating/Camping:				Outdoor Light String			
Electric Grill		1650	0	Cell Phone Battery Charger		25	0
AM/FM Radio		100	0	Inflator Pump		50	150
Box Fan – 20"		200	0				

TOOL OR APPLIANCE		ESTIMATED RUNNING WATTS	ADDITIONAL STARTING WATTS	TOOL OR APPLIANCE		ESTIMATED RUNNING WATTS	ADDITIONAL STARTING WATTS
Storm / Emergency Use							
Essentials:				Kitchen:			
Light Bulb – 60 Watt		60	0	Microwave Oven – 625 Watts		625	0
Light Bulb – 75 Watt		75	0	Microwave Oven – 1000 Watts		1000	0
Refrigerator/ Freezer		700	2200	Coffee Maker		1000	0
Sump Pump – 1/3 HP		800	1300	Electric Stove – 8" Element		2100	0
Sump Pump – 1/2 HP		1050	2200	Dishwasher – Hot Dry		1500	1500
Water Well Pump – 1/3 HP		1000	2200	Food Processor		400	0
Electric Water Heater		4000	0	Toaster Oven		1200	0
Heating/Cooling:				Family Room:			
Space Heater		1800	0	VCR		100	0
Humidifier – 13 Gal		175	0	Stereo Receiver		450	0
Furnace Fan Blower – 1/2 HP		800	2350	Other:			
Furnace Fan Blower – 1/3 HP		700	1400	Security System		500	0
Window AC – 10,000 BTU		1200	1800	Garage Door Opener – 1/2 HP		875	2350
Window AC – 12,000 BTU		3250	3950	Curling Iron		1500	0
Central AC – 10,000 BTU		1500	3000	Hair Dryer – 1250 Watt		1250	0
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				

TOOL OR APPLIANCE		ESTIMATED RUNNING WATTS	ADDITIONAL STARTING WATTS	TOOL OR APPLIANCE		ESTIMATED RUNNING WATTS	ADDITIONAL STARTING WATTS
Jobsite							
DIY/Jobsite:				Hammer Drill			
Quartz Halogen Work Light, 300		300	0	Circular Saw – 7-1/4"		1400	2300
Quartz Halogen Work Light, 500		500	0	Miter Saw – 10"		1800	1800
Quartz Halogen Work Light, 1,000		1000	0	Planer/Joiner – 6"		1800	1800
Airless Sprayer – 1/3 HP		600	1200	Table Saw/Radial Arm Saw – 10"		2000	2000
Reciprocating Saw		960	960	Belt Sander		1200	2400
Electric Drill – 3/8", 4 Amps		440	600	Air Compressor – 1/4 HP		970	1600
Electric Drill – 1/2", 5.4 Amps		600	900	Air Compressor – 1 HP		1600	4500

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.