



WATTAGE WORKSHEET

WHEN SELECTING A GENERATOR, THERE ARE SEVERAL 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 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 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 additional 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 (RATED) WATTS	ADDITIONAL STARTING WATTS
1. Refrigerator/Freezer	550	1350
2. 1/2 HP Furnace Fan	800	2350
3. Deep Freezer	500	500
4. Television	75	-
5. Lights (6 x 75 watts)	450	-
6.		
7.		

HIGHEST ADDITIONAL STARTING WATTS

TOTAL RUNNING WATTS = 2375 + 2350 ←

2375 TOTAL RUNNING WATTS

+ 2375 TOTAL RUNNING WATTS

= 4725 TOTAL STARTING WATTS

With this example you need a generator that produces at least 2375 total running watts and 4725 total starting watts.

YOUR POWER NEEDS

TOOL OR APPLIANCE	RUNNING (RATED) WATTS	ADDITIONAL STARTING WATTS
1.		
2.		
3.		
4.		
5.		
6.		
7.		

TOTAL RUNNING WATTS = + HIGHEST ADDITIONAL STARTING WATTS

 TOTAL RUNNING WATTS

+ TOTAL RUNNING WATTS

= 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 - 7000 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 additional 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 additional starting watts. The additional starting watts required may be estimated at 1 - 2x the running/rated watts.



WATTAGE WORKSHEET

WATTAGE REFERENCE GUIDE

HOME

TOOL OR APPLIANCE	RUNNING (RATED) WATTS	ADDITIONAL STARTING WATTS	TOOL OR APPLIANCE	RUNNING (RATED) WATTS	ADDITIONAL STARTING WATTS
Essentials:			Clothes Dryer - Electric	3600	9000
Light Bulb - 60 Watt	60	0	Clothes Dryer - Gas	1800	4500
Light Bulb - 75 Watt	75	0	Kitchen:		
Refrigerator/Freezer	550	1350	Microwave Oven - 625 Watts	625	0
Sump Pump - 1/3 HP	1140	2850	Microwave Oven - 1000 Watts	1000	0
Sump Pump - 1/2 HP	1200	3000	Coffee Maker	1300	0
Water Well Pump - 1/3 HP	575	1440	Electric Stove - 8" Element	2100	0
Electric Water Heater	3800	0	Dishwasher - Hot Dry	1200	3000
Heating/Cooling:			Food Processor	500	0
Space Heater	1500	0	Toaster Oven	1500	0
Humidifier - 13 Gal	175	0	Toaster	850	0
Furnace Fan Blower - 1/3 HP	700	1400	Electric Can Opener	70	0
Furnace Fan Blower - 1/2 HP	800	2350	Family Room:		
Window AC - 10,000 BTU	1000	2100	DVD Player	20	0
Window AC - 12,000 BTU	3250	3950	Stereo Receiver	450	0
Central AC - 10,000 BTU	1500	3000	LCD TV - 32"	75	0
Central AC - 24,000 BTU	3800	4950	X-Box, Game Cube, Playstation	40	0
Central AC - 40,000 BTU	6000	6700	Other:		
Heat Pump	4700	4500	Security System	500	0
Laundry Room:			1/2 HP Garage Door Opener	550	1375
Iron	1200	0	Curling Iron	1500	0
Washing Machine	950	2400	Hair Dryer - 1250 Watt	1250	0

WORK

DIY/Jobsite:			Planer/Jointer - 6"	1800	4500
Quartz Halogen Work Light, 300	300	0	Table Saw/Radial Arm Saw - 10"	1800	4500
Quartz Halogen Work Light, 500	500	0	Belt Sander	950	2400
Quartz Halogen Work Light, 1,000	1000	0	Air Compressor - 1/3 HP	300	780
Airless Sprayer - 1/3 HP	600	1200	Air Compressor - 1 HP	1400	3600
Reciprocating Saw	1080	2700	Office Equipment:		
Electric Drill - 3/8", 4 Amps	480	1200	Desktop Computer w/ 18" LCD Monitor	300	0
Electric Drill - 1/2", 5.4 Amps	1100	1250	Fax Machine	150	0
Hammer Drill	1600	1400	Laser Printer	400	0
Circular Saw - 7-1/4"	2100	5250	Inkjet Printer	10	0
Miter Saw - 10"	1800	4500	Copy Machine	1300	0

PLAY

Tailgating/Camping			Color TV - 13"	50	0
Electric Griddle	1500	0	Outdoor Light String	250	0
AM/FM Radio	10	0	Cell Phone Battery Charger	25	0
CD/DVD Player	100	0	Inflator Pump	175	0
Box Fan - 20"	100	0	Crock Pot	240	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.