

# Buyer's Guide

## Approximate Appliance Wattage

This worksheet will help you determine what size generator is suitable based on the wattage required for each appliance. When calculating required wattage, you need to pay attention to both starting and running watts. The number of watts an appliance needs to run is typically less than the initial startup.

### Calculate: Total Starting Watts Needed

**SUM** the Running Watts for all the electronic devices you need



**ADD** the single highest Starting Watt from your selected electronic devices



**TOTAL** Starting Watts needed

"How big of a generator do I need?"

In this example you'd need a generator you'd produce 7475 total running watts and 9825 starting watts

Example		
ELECTRONIC DEVICES	RUNNING WATTS	STARTING WATTS
Refrigerator/freezer	1050	2200
Electric Stove (8" Element)	2100	0
Air Conditioner (10,000 BTU)	3000	1500
Garage Door Opener (1/2 HP)	875	2350
Lights (6 x 75watts)	450	0

7475  
TOTAL RUNNING WATTS

HIGHEST STARTING WATTS

7475

2350

9825

TOTAL STARTING WATTS NEEDED

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Electronic Devices	Starting Watts	Running Watts
<b>Kitchen</b>		
Can Opener	0	165
Coffee Maker	0	1000
Dishwasher (Hot Dry)	1500	1500
Electric Stove (8" Element)	0	2100
Food Processor	0	400
Microwave Oven (625 watts)	0	625
Microwave Oven (1000 watts)	0	1000
Refrigerator/freezer	2200	1050
Toaster	0	850
Toaster Oven	0	1200



<b>Laundry</b>		
Clothes Dryer (Electric)	1350	5400
Iron	0	1200
Washing Machine	2250	1150



<b>Heating and Cooling</b>		
Air Conditioner (10,000 BTU)	3000	1,500
Air Conditioner (24,000 BTU)	4,950	3,800
Air Conditioner (40,000 BTU)	6700	6000
Furnace, Blower (1/2 HP)	2350	800
Furnace, Blower (1/3 HP)	1400	700
Heat Pump	4500	4700
Portable Space Heater	0	1800
Window AC (10,000 BTU)	1800	1200
Window AC (12,000 BTU)	3950	3250



<b>Lighting</b>		
Light Bulb (60 watt)	0	60
Light Bulb (75 watt)	0	75



Electronic Devices	Starting Watts	Running Watts
<b>Home Electronics</b>		
AM/FM Radio	0	100
Desktop Computer (17")	0	800
Printer (Inkjet)	0	80
Printer (Laser)	0	950
Stereo	0	450
Television (28")	0	500



<b>Miscellaneous</b>		
Garage Door Opener (1/2 HP)	2350	875
Humidifier (13 Gallon)	0	175
Security System	0	500
Sump Pump (1/2 HP)	2,200	1050
Water Heater	0	4000
Well Pump (1/3 HP)	2,000	1000



<b>Tools</b>		
Air Compressor (1/4 hp)	1600	975
Air Compressor (1 hp)	4500	1600
Circular Saw (7-1/4")	2300	1400
Hand Drill (5/8")	900	600
Miter Saw (10")	1800	1800
Reciprocating Saw	0	960
Table Saw	2000	2000