



## Wattage Reference Guide

# How Much Generator Power Do You Need?

To select a generator that has enough power output in watts, add the wattage for the items you want to simultaneously run. Tools and appliances with induction motors may require 3-7 times the listed wattage when starting. All data listed is approximate - check your tool/appliance for specific wattage requirements.

Household		
Appliance	Starting Watts	Running Watts
<b>Dishwasher</b> Cool Dry	1,400	700
<b>Electric Range</b> 6 inch element	0	1,500
<b>Microwave Oven</b> (625 Watts)	800	625
<b>Refrigerator or Freezer</b>	2,200	700
<b>Automatic Washer</b>	2,300	1,150
<b>Clothes Dryer</b> Gas	1,800	1,800
Electric	700	5,750
<b>Garage Door Opener</b> 1/4 HP	1,100	550
<b>Furnace Fan, gas or fuel oil</b> 1/4 HP	1,000	600
<b>Lights</b>	0	As Indicated
<b>Radio</b>	0	50 - 200
<b>Well Pump</b> 1/3 HP	1,400	750
<b>Sump Pump</b> 1/3 HP	1,300	800
<b>Central Air Conditioning</b> 20,000 BTU	3,300	2,500

Contractor Tools		
Tool	Starting Watts	Running Watts
<b>Hand Drill</b> 1/2 inch	600	600
<b>Circular Saw</b> 8-1/4 inch	1,400	1,400
<b>Table Saw</b> 10 inch	6,300	1,800
<b>Band Saw</b> 14 inch	2,500	1,800
<b>Air Compressor</b> 1-1/2 HP	8,200	2,200
<b>Electric Chain Saw</b> 2 HP, 14 inch	1,100	1,100
<b>Plasma Cutter</b> 27 amp, 230 volt, 3/8 in. cut	3,500	3,500
<b>Millermatic® 210 MIG Welder</b> 30-210 Amps, 230 Volt	6,500	6,500
<b>Flood Lights</b> Vapor	1,250	1,000
<b>Submersible Pump</b> (400 gph)	600	200
<b>Centrifugal Pump</b> (900 gph)	900	500
<b>High Pressure Washer</b> 1 HP	6,100	1,600
<b>Wet Dry Vac</b> 1.7 HP	900	900

Farm Equipment		
Machine	Starting Watts	Running Watts
<b>Portable Conveyor</b> 1/2 HP	3,400	1,000
<b>Milker - Vacuum Pump</b> 2 HP	10,500	2,800
<b>Farm Duty Motors</b> (e.g. Conveyors, Feed Augers, Air Compressors, Etc) 1-1/2 HP	8,200	2,200
<b>Washer</b> 2 gal/min, 550 PSI	4,500	1,400

Industrial Motors		
Motor	Starting Watts	Running Watts
<b>Split Phase</b> 1/2 HP	3,175	875
<b>Capacitor Start - Induction Run</b> 1-1/2 HP	8,200	2,200
<b>Capacitor Start - Capacitor Run</b> 1-1/2 HP	8,100	2,000
<b>Fan</b> 1/2 HP	3,500	1,100