

# Estimating Power Needs: Portable Transformers

The more watts your portable transformer produces, the more items you can power at the same time. The wattage reference chart (see right) contains examples of what you can power with a portable transformer. Use the chart and the following steps to help you determine how powerful your portable transformer should be.

1. Select items from the chart that you would like to power at the same time. Fill in the **TOOL OR APPLIANCE** and **RUNNING WATTS** requirements in the "Your Power Needs" Section.
2. Total the **RUNNING WATTS** of the items you wish to power at one time. Enter this number in the **TOTAL RUNNING WATTS** box.
3. Identify the **ONE INDIVIDUAL ITEM** on your list with the highest number of Running Watts. Enter this into the **HIGHEST LISTED WATTS**. When you figure out the **HIGHEST LISTED WATTS**, that's how you'll know the size of the transformer you'll need.

Tool or Appliance	Running (Rated) Watts
1. Refrigerator/Freezer	700
2. 1/2 HP Furnace Fan	800
3. Deep Freezer	500
4. Television	500
5. Lights (6 x 75 watts)	450

Although your total running watts are 2,950, with this example you will need a transformer that produces only 800 total running watts. Every other product listed will work with this transformer because the watts of those items don't exceed 800 when running alone.

Total Running Watts	2950
Highest Listed Watts	800
Transformer Needed =	800

## Your Power Needs:

(PLEASE CHECK HOW MANY WATTS YOUR APPLIANCE NEEDS)

Tool or Appliance	Running (Rated) Watts
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	

Total Running Watts	
Highest Listed Watts	
Transformer Needed =	

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Tool or Appliance	Example Of Running Watts (watts vary to change)
<b>HOME</b>	
<b>Essentials</b>	
Light Bulb - 60 Watt	60
Light Bulb - 75 Watt	75
Deep Freezer	500
Sump Pump 1/3 HP	800
Well Pump 1/2 HP	1000
Electric Water Heater	4000
<b>Heating/Cooling</b>	
Space Heater	1800
Humidifier - 13 Gallons	175
Furnace Fan Blower - 1/2 HP	800
Furnace Fan Blower - 1/3 HP	700
Window A/C, 10,000 BTU	1200
Window A/C, 12,000 BTU	3250
Central A/C, 10,000 BTU	1500
Central A/C, 24,000 BTU	3800
Heat Pump	4700
<b>Laundry Room</b>	
Iron	1200
Washing Machine	1150
Clothes Dryer - Electric	5400
Clothes Dryer - Gas	700
<b>Kitchen</b>	
Refrigerator/Freezer	700
Microwave Oven - 625 Watts	625
Microwave Oven - 1000 Watts	1000
Coffee Maker	1000
Electric Stove - 8" Element	2100
Dishwasher - Hot/Dry	1500
Food Processor	400
Toaster Oven	1200
Toaster	850
Electric Can Opener	168
<b>Family Room</b>	
Laptop	20-75
Stereo	30-100
Color TV - 32" LED/LCD	50
Video Game System	40-140
<b>Other</b>	
Security System	500
Ipad/Tablet	10-20
Hair Dryer - 1250 Watts	1250
Curling Iron	1500
<b>WORK</b>	
<b>DIY/Jobstite</b>	
Quartz Halogen Work Light	1000
Airless Sprayer - 1/3 HP	600
Reciprocating Saw	960
Electric Drill - 3/8", 4 Amps	440
Electric Drill - 1/2", 5.4 Amps	600
Circular Saw - 7 1/4"	1400
Belt Sander	1200
Air Compressor 1/4 HP	975
Air Compressor 1 HP	1600
<b>Office Equipment</b>	
Computer w/ 17" Monitor	200-400
Fax Machine	65
Laser Printer	500-1000
Copy Machine	1600
<b>PLAY</b>	
<b>Tailgating / Camping</b>	
Electric Skillet	1500
AM/FM Radio	10
CD/DVD Player	15
Box Fan	200