

BPS Wattage Worksheet

Tool or Appliance	Rated (Running) Watts	Add'l Surge (Starting) Watts	Your (Running) Watts	Your (Starting) Watts	Avg Monthly kWh
Laundry Room					
Washing Machine (5 loads/wk)	1150	2250			7
Clothes Dryer (5 loads/wk)	5400	1350			100
Iron	1200				5
Heating/Cooling					
Air Cleaner					18
Humidifier					14
Table Fan - 14"	200	400			
Ceiling Fan	800	1200			
Ceiling Fan (8hrs/day)					
high speed					24
medium speed					18
low speed					15
Window Fan 20"					22
Furnace Fan Blower 1/2 HP	800	1300			
1/3 HP					60
1/-HP					90
Window AC - 6,000 BTU/hr (8hrs/day)					190
10,000 BTU/hr	1200	1800			320
12,000 BTU/hr	3250	3950			
14,000 BTU/hr					450
18,000 BTU/hr					575
20,000 BTU/hr					640
Central AC - 10,000 BTU	1500	4500			
Central -11/-ton (8hrs/day)					540
2 ton					720
2 1/2 ton					900
3 ton					1080
4 ton					1440
5 ton					1800
Space Heater	1800				
Portable Space Heater (8hrs/day)					
1,000 watts					240
1,500 watts					360
Electric Heating (8hrs/day)					
10,250 watts					1512
15,350 watts					2040
20,490 watts					3017
25,670 watts					3556
Baseboard units (8hrs/day)					
500 watts					120
1,000 watts					240
1,500 watts					360
2,000 watts					480
Heat Pump	4700	4500			
Heat Pump (8hrs/day)					
Cooling 2 ton					650
3 ton					900
4 ton					1200
5 ton					1800
Heating 2 ton					900
3 ton					1200
4 ton					1800
5 ton					2200

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Tool or Appliance	Rated (Running) Watts	Add'l Surge (Starting) Watts	Your (Running) Watts	Your (Starting) Watts	Avg Monthly kWh
Office Equipment					
Fax Machine	65				
Inkjet Printer	80				
Personal Computer with 17" Monitor	800				
Laser Printer	950				
Copy Machine	1600				
Other					
AM/FM Clock Radio	100				
Security System	180				
Garage Door Opener - 1/2 HP	480	520			
Hair Dryer - 500 watts	500				6
1,000 watts	1000				13
1,250 watts	1250				
Curling Iron					6
Electric Water Heater 40 Gallons	4000				
Sump Pump 1/3 HP	800	1300			
1/2 HP	1050	2150			
Water Well Pump 1/3 HP	750	1500			
1/2 HP	900	2000			
3/4 HP	1500	3000			
1 HP	2000	4100			
1 1/2 HP	2500	5000			
2 HP	3750	7000			
3 HP	5000	10,000			
<p>To determine the amount of electricity used by your water pump motor, check the horsepower of your pump and estimate how many hours per month it runs. Then follow this formula:</p> <p>HP x hours x .85 (motor efficiency) = kWh</p>					
Indoor Average Home Usage					
more accuracy count fixtures and wattage					100-200
Outdoor (8hrs/day usage) 50 watts	50				36
60 watts	60				14
75 watts	75				
Security Light 175 watts	175				70
Water Heater: avg person 20 gallons of water per day					
1 person 600 gals/month					117
2 people 1200 gals/month					234
3 people 1800 gals/month					352
4 people 2400 gals/month					469
5 people 3000 gals/month					586
6 people 3600 gals/month					704
Electric Blanket					24
Water Bed Heater					85
Jacuzzi/Hot Tub Heater (8hrs/day)					
1,500 watts					360
6,000 watts					1440
Do It Yourself Jobsite					
Airless Sprayer - 1/3 HP	600	1200			
Reciprocating Saw	960				
Quartz halogen Work Light	1000				
Electric Drill - 1/2 HP	1000	1000			
Circular Saw - 7 1/4"	1500	1500			
Miter Saw - 10"	1800	1800			
Planer/Jointer - 6"	1800	1800			

Table/Radioal Arm Saw - 10"		2000		2000					
Air Compressor - 1 1/2 HP		2500		2500					
Total Rated Watts =				0	0				
					Your	Your			
					(Running)	(Starting)			
					Watts	Watts			
<u>Wattage x Hours of Use (per month) = kilowatt-hours</u>									
1,000									
How many watts does it take to power basic items in an average size house?									
In a typical home, essential items will average 4000-6000 watts of power to run.									
What if I can't determine the rated or the surge watt requirement for a tool or appliance?									
If the rated/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 have an additional surege requirement. The additional surge watts required may be estimated at 1-2x the rated/running watts.									