



Electricity Consumption Guide - Approximate Monthly Usage and Cost of Common Electric Appliances

For your convenience we have listed the average wattage of common appliances along with the estimated kilowatt hours (kWh) use and cost per month. The figures used are guides and your actual consumption may vary depending upon appliance age, frequency of use, and/or family size.

Appliance	Approximate Usage Wattage (1)	Approximate Powerdown Wattage (1)	Approximate Standby Wattage (1)	Avg. Usage (hrs/month)	Avg. Powerdown Usage (hrs/month)	Avg. Standby Usage (hrs/month)	Monthly Usage kWh	Monthly Powerdown kWh	Monthly Standby kWh	Approximate Monthly Cost
100-W Incandescent Lamp	100	0	0	99.0	0.0	0.0	9.9	0.0	0.0	\$ 1.27
60-W Incandescent Lamp	60	0	0	99.0	0.0	0.0	5.9	0.0	0.0	\$ 0.76
23-W CFL Bulb	23	0	0	99.0	0.0	0.0	2.3	0.0	0.0	\$ 0.29
9-W LED Bulb	9	0	0	99.0	0.0	0.0	0.9	0.0	0.0	\$ 0.11
Aquarium Equipment	63	0	0	730.0	0.0	0.0	46.0	0.0	0.0	\$ 5.88
Ceiling Fan (only fan motor)	120	0	0	193.0	0.0	0.0	23.2	0.0	0.0	\$ 2.96
Clothes Dryer	3400	0	0	25.0	0.0	0.0	85.0	0.0	0.0	\$ 10.86
Clothes Washer	425	0	0	22.0	0.0	0.0	9.4	0.0	0.0	\$ 1.19
Coffee Maker	1000	70	0.5	15.0	30.0	685.0	15.0	2.1	0.3	\$ 2.23
Dehumidifier	500	0	0	135.0	0.0	0.0	67.5	0.0	0.0	\$ 8.63
Desktop Computer Monitors	50	1	1	155.0	73.0	502.0	7.8	0.1	0.5	\$ 1.06
Desktop PCs	75	4	2	155.0	73.0	502.0	11.6	0.3	1.0	\$ 1.65
Dishwasher	1300	0	0	30.0	0.0	0.0	39.0	0.0	0.0	\$ 4.98
DVD/VCR	20	13	3.3	15.0	430.0	285.0	0.3	5.6	0.9	\$ 0.87
Freezer	600	0	0	65.0	0.0	0.0	39.0	0.0	0.0	\$ 4.98
Furnace Fan	500	0	0	226.0	0.0	0.0	113.0	0.0	0.0	\$ 14.44
Hair Dryer	710	0	0	4.2	0.0	0.0	3.0	0.0	0.0	\$ 0.38
Microwave Oven	1500	0	3	6.5	0.0	723.5	9.8	0.0	2.2	\$ 1.52
Notebook PCs	25	2	2	155.0	73.0	502.0	3.9	0.1	1.0	\$ 0.64
Pool Pump	1000	0	0	62.0	0.0	0.0	62.0	0.0	0.0	\$ 7.92
Spa (hot tub - on demand elec.)	5500	0	275	28.0	0.0	702.0	154.0	0.0	193.1	\$ 44.35
Rechargeable Power Tool	13	0	4	6.0	0.0	724.0	0.1	0.0	2.9	\$ 0.38
Refrigerator-Freezer	725	0	0	76.0	0.0	0.0	55.1	0.0	0.0	\$ 7.04
Set-top Boxes	20	20	0	537.5	192.5	0.0	10.8	3.9	0.0	\$ 1.87
Space Heater	1200	0	0	48.7	0.0	0.0	58.4	0.0	0.0	\$ 7.47
Stereo Systems	33	30	4	125.8	150.8	453.3	4.2	4.5	1.8	\$ 1.34
Toaster Oven	1500	460	0	6.0	2.0	0.0	9.0	0.9	0.0	\$ 1.27
Torchiere Lamp-Halogen	300	0	0	121.7	0.0	0.0	36.5	0.0	0.0	\$ 4.66
TV Analog, <40"	86	0	6.4	91.3	0.0	638.8	7.8	0.0	4.1	\$ 1.53
TV Analog, >40"	156	0	6.4	152.1	0.0	577.9	23.7	0.0	3.7	\$ 3.50
TV Digital, ED/HD TV, <40"	150	0	6.4	91.3	0.0	638.8	13.7	0.0	4.1	\$ 2.27
TV Digital, ED/HD TV, >40"	234	0	6.4	152.1	0.0	577.9	35.6	0.0	3.7	\$ 5.02
Vacuum	542	0	0	3.0	0.0	0.0	1.6	0.0	0.0	\$ 0.21
Video Game Systems	100	50	0.8	33.8	46.7	649.6	3.4	2.3	0.5	\$ 0.80
Water Heater-Family of 2	4500	0	0	60.0	0.0	0.0	270.0	0.0	0.0	\$ 34.50
Water Heater-Family of 4	4500	0	0	87.0	0.0	0.0	391.5	0.0	0.0	\$ 50.03
Waterbed Heater	350	0	0	254.3	0.0	0.0	89.0	0.0	0.0	\$ 11.37
Well Pump	700	0	0	9.6	0.0	0.0	6.7	0.0	0.0	\$ 0.86

Note: 1) Power draw will vary due to individual appliance specifications and modes of operation.

Sources: <http://hes-documentation.lbl.gov/calculation-methodology/calculation-of-energy-consumption/major-appliances/miscellaneous-equipment-energy-consumption/default-energy-consumption-of-mels>
http://www.consumerreports.org/cro/resources/images/video/wattage_calculator/wattage_calculator.html

How to Determine The Cost of Running Appliances

You can estimate the cost of operating an appliance if you know the rating in watts, actual operating time in hours, and the kWh cost of energy in your area. Check your most recent bill or celd.com for our current rates. To estimate the operating cost of your appliance use this formula:

$$\text{Watts} / 1,000 \times \text{operating time in hours} \times \text{kWh cost}$$

Knowing the Cost Helps You Manage Your Money More Effectively

To save energy, reduce waste, and keep costs low, it helps to know how much energy an appliance uses and the typical cost for operating it. However, the cost of operating an appliance can't always be directly related to its' wattage rating. Appliances such as refrigerators and ranges cycle on and off in order to maintain required temperatures. Others, such as washing machines and dishwashers, use energy according to preset cycle of operations.

All refrigerators, freezers, dishwashers, water heaters, room A/C units, clothes washers, and furnaces manufactured after May 18, 1980, are subject to the Federal Trade Commission's labeling rule. Each appliance model must display an Energy Guide label stating the estimated annual energy cost to provide the means for comparison. The costs shown are based on national averages and should be adjusted for local costs and different energy sources such as electricity, gas, and fuel oil.

Your meter provides an accurate measurement of the electricity used each month. If your bill indicates an excessive consumption, please check if any of the following reasons may apply to you:

- * More days in the billing period as compared with periods of different length
- * Increased air conditioning or heating operating hours due to extreme temperatures
- * Inadequate home insulation
- * Aged or malfunctioning electric appliances
- * Inadequate or defective wiring
- * Home-based business, office, or hobbies
- * Continuous use of high-consumption electric items such as spa's/hot tubs, swimming pool pumps / heaters, or space heaters
- * A new baby in the home
- * Young people home from college
- * Frequent entertaining of guests and relatives

If you would like more information about energy efficiency programs that we offer to our residential customers, please call Home Energy Loss Prevention Services (HELPS) at 888-333-7525 to see how they can help you, and schedule a free energy audit.