

# Typical Wattage Requirements for Common Appliances

Use the manufacturer's specs if possible, but be careful of nameplate ratings that are the highest possible electrical draw for that appliance. Beware of appliances that have a "standby" mode and are really "on" 24 hours a day. (chart updated 2009)

<u>DESCRIPTIONS</u>	<u>WATTS</u>
<b><u>Kitchen Appliances</u></b>	
Refrigeration:	
4-yr. old 22 cu. ft. auto defrost (approx. run time 7-9 hours per day).....	500
New 22 cu. ft. auto defrost (approx. run time 7-8 hours per day).....	200
12 cu. ft. Sun Frost refrigerator (approx. run time 6-9 hours per day).....	58
4-yr.-old standard freezer (approx. run time 7-8 hours per day).....	350
<b>NOTE:</b> Refrigerators are improving. Check new products for new ratings.	
Blender .....	350
Can opener (electric) .....	100
Coffee grinder.....	100
Coffeemaker .....	850-1200
Deep fat fryer.....	1380
Dishwasher: cool dry .....	700
Dishwasher: hot dry.....	1450
Egg cooker .....	500
Exhaust Hood .....	144
Food Dehydrator.....	600
Food processor.....	400
Food waste disposer .....	420
Fruit Juicer .....	100
Frying pan.....	1170
Grill, sandwich .....	1050
Hot plate .....	1250
Microwave (.5 cu. ft.) .....	900
Microwave (.8 to 1.5 cu. ft.) .....	1500
Mixer .....	120
Range, large burner.....	2100

<u>DESCRIPTIONS</u>	<u>WATTS</u>
Range, small burner .....	1250
Range, Amana (propane) with glow bar.....	380
Roaster .....	1345
Slow cooker (crockpot).....	180-240
Toaster (2-slice).....	750-1200
Trash compactor.....	1500
Waffle iron .....	1080

## **Water Pumping**

AC Jet Pump (1/2 hp) 300 gal. per hour, 20-foot well depth, 30 psi.....	750
AC Submersible Pump (1/2 hp), 40-foot well depth, 30 psi.....	1000
DC pump for house pressure system (typical use is 1-2 hours per day) .....	60
DC submersible pump (typical use is 6 hours per day)...	50

## **Shop**

AC grinder, 1/2 hp.....	1080
AC table saw, 10 inch .....	1800
Hand drill, 1/2 inch.....	600
Hand drill, 3/8" .....	400
Lathe (12 inch) .....	660
Router.....	720
Sander (orbital).....	300
Saw, band .....	660
Saw, circular.....	1080
Saw, saber .....	288
Saw, table .....	950
Worm drive 7 1/4 -inch saw.....	1800

<u>DESCRIPTIONS</u>	<u>WATTS</u>
<b><u>General Household</u></b>	
Air conditioner, 1 ton or 10,000 BT/hr. .....	1500
Air conditioner, window ....	1300-1500
Alarm/security system .....	6
Clock radio .....	5
Clock, electric .....	4
Clothes dryer, electric .....	4800-5750
Clothes dryer, gas.....	300-500
Clothes washer, horizontal axis .	145-250
Clothes washer, vertical axis .....	900
Dehumidifier.....	240
Electric blanket .....	170-400
Electrostatic cleaner .....	60
Fan, attic.....	375
Fan, circulating .....	85
Fan, furnace 1/4 hp .....	600
Fan, furnace 1/3 hp .....	700
Fan, furnace 1/2 hp .....	875
Fan, roll about .....	205
Fan, window.....	190
Floor polisher .....	315
Fountain, tabletop .....	5
Garage door opener, 1/4 hp .....	550
Germicidal lamp .....	20
Heat lamp (infrared) .....	250
Heat pump .....	9600
Heater, radiant.....	1300
Heating pad .....	60
Humidifier.....	70
Iron (electric).....	1200
Light bulb, incandescent .... (on bulb)	
Light bulb, typical fluorescent light (60W equivalent) .....	15
Oil burner or stoker .....	260
Serger (Pfaff) .....	140
Sewing machine .....	75
Vacuum cleaner, average.....	900
Vacuum, central.....	1500
Vacuum, Oreck.....	410
Vacuum, Dirt Devil upright.....	980
Water heater, quick recovery.....	4500
Water heater, standard.....	3000
Waterbed heater.....	300

<u>DESCRIPTIONS</u>	<u>WATTS</u>
<b><u>Hygiene</u></b>	
Hair curler .....	750
Hairdryer .....	400-1500
Shaver, electric.....	15
Sunlamp.....	290
Toothbrush, electric, charging stand .....	6
Waterpik.....	90
Whirlpool bath.....	750
<b><u>Entertainment/Telephone</u></b>	
CB (receiving).....	10
Guitar amp (Jimi Hendrix volume).....	8500
Guitar amplifier (avg. volume) .....	40
Laser disk/CD player .....	30
Piano, electric.....	30
Radio.....	80
Satellite system, 12-ft dish/VCR.....	30
Stereo home theater, AC.....	500
Stereo, AC (avg. volume).....	25-55
Stereo, DC (avg. volume).....	10-15
Telephone, cellular (on standby).....	5
Telephone, cordless (on standby)...	5
TV, 12-inch black & white.....	16
TV, 19-inch color .....	50-80
TV, 27-inch color.....	120-170
LCD TVs use less power than older models: LCD 50-inch TV.....	175
Video games (excluding TV).....	20
<b><u>Office/Den</u></b>	
Adding machine .....	8
Computer, desktop .....	90
Computer, laptop .....	25
Fax machine, plain paper printing .....	50
standby .....	5
Monitor, 15-inch LCD display .....	35
Monitor, 17-inch flat screen .....	50
Monitor, 17-inch color.....	100
Pencil sharpener, electric.....	60
Printer, ink jet .....	15
Printer, laser.....	600-900
Typewriter, electric .....	200

# Approximate Average Power Consumption of Widely Available 12-volt DC Appliances

<u>DESCRIPTIONS</u>	<u>AMPS</u>
<b><u>Lighting</u></b>	
15-watt fluorescent light .....	1.0
16-watt slimline fluorescent light ..	1.2
Dual 8-watt fluorescent tubes.....	1.2
20-watt standard fluorescent light	1.5
30 watt slimline fluorescent light ..	2.0
<b><u>Kitchen</u></b>	
Coffee percolator.....	11.5
Toaster .....	15.0
Slow cooker.....	20.0
Range hood, fan and light.....	5.0
Vent fan.....	2.5
Refrigerator .....	5.0
Sundancer Refrig/Freezer....	0.5-11.0
<b><u>Household</u></b>	
Travel iron .....	10.0
Electronic bug killer .....	2.5
Electric razor .....	1.3
Vacuum cleaner, hand portable ...	5.0
Electric toothbrush .....	1.0
<b><u>Tools</u></b>	
Winches (for light use) .....	10.0-100.0
Air compressor .....	3.5-9.0
Chain saw, 14" blade .....	100.0
Drill .....	12.0-15.0
<b><u>Communications</u></b>	
TV, B&W, 12" .....	1.4
TV, Color, 9" .....	4.0
CB radio .....	0.5
Digital clock.....	0.1
Tape recorder.....	0.5
Amplifier (30 watt) .....	2.0
DC turntable .....	0.5

## **FORMULA TO COMPUTE AMP-HOURS**

Light..... 1.5 amps x 6 hours = 9.0 amp-hrs  
 Coffee maker .....

..... 11.5 amps x 1 hour = 11.5 amp-hrs  
 TV .....

..... 1.4 amps x 3 hours = 4.2 amp-hrs

**Total (of this example)..... 24.7 amp-hrs.**

## **TYPICAL WATTAGE REQUIREMENTS FOR 12 VDC APPLIANCES**

Shurflo 12 VDC pump .....

..... 5-7 amps

O<sub>2</sub> Cool fan..... low .3 amps  
 ..... hi .6 amps

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