

How Many Watts Do You Need?

Add the watts for items you may want to run at the same time. Use the total wattage, plus 20%, as your minimum power requirement.

Note: The wattage's given below are estimates. The actual wattage required for your appliances may differ from those listed. Use the Kill o Meter to determine the actual wattage required.

* Appliances and tools with induction motors (marked * in tables) may require from 3 to 7 times the listed wattage when starting.

F.Y.I. (conversion formula: Watts ÷ 120 volts = Amps Amps x 120 volts = Watts)

Common Appliances	Estimated Watts
Coffee Maker	600-1200
Keurig	1500 (max) 200-400 (continuous)
Blender	300-1000
Microwave (600-1000 Watt Cooking Power)	1000-2000
Waffle Iron	800-1500
Hot Plate	750-1500
Electric Skillet	1000-1500
Toaster Oven	1200
Toaster	800-1500
Hair Dryer	1000-1875
Vacuum Cleaner	300-1500
Space Heater	750 / 1500
Clothes Iron	1000-1500
* Refrigerator	500-750
* Chest Freezer	600

* Washing Machine	500-1000
Furnace Fan	750-1200
Household Fan	50-120
Clock Radio	10-50
Stereo	30-100
Cell Phone Charger	10
Laptop Computer	20-75
MacBook Pro	85
iPad / Tablet	10-20
Desktop with Monitor	200-400
Inkjet Printer	15-75
Laser Printer	500 (continuous) 2000 (peak)
Photographic Strobe (300 Watt-Second)	1200 (peak)
Aquarium	50-1000
TV 32" LED/LCD	50
TV 42" Plasma	240
Home Theater Projector	200
Blu-Ray or DVD Player	15
Satellite Dish / Receiver	20-30
Video Game Console (Xbox / PS4 / Wii)	40-140

Common Tools	Estimated Watts
Angle Grinder	900
Drill (1/4"-1/2")	500-960
Disc Sander	1200
Jig Saw	300-700
Band Saw	700-1200
Table Saw	1800
Circular Saw	1400-1800
Chop / Cut Off Saw	1500-1800
Shop Vac 6.5 hp	1440
* Electric Chain Saw 14"	1200
* Airless Sprayer 1/2 hp	750
* Air Compressor 1 hp	2000

Pumps and Air Conditioners	Estimated Watts
* Well Pump 1/3 hp	750 (Running) 1400-3000 (Starting)
* Well Pump 1/2 hp	1000 (Running) 2100-4000 (Starting)
* Sump Pump 1/3 hp	800 (Running) 1300-2900 (Starting)
* Sump Pump 1/2 hp	1050 (Running) 2150-4100 (Starting)
* Air Conditioner (7000 BTU to 10,000 BTU)	1000-1500 (Running) 2200-5000 (Starting)