

## Average Watts Table

Appliance / Power Tool	Average Watts	Appliance / Power Tool	Average Watts
Air Conditioner (reverse cycle)		Iron	900-1200
▪ Small – 1 HP	2000	Kettle	1200-2400
▪ Medium – 2 HP	4000	Lighting	
▪ Large – 3 HP	6000	▪ Fluorescent	40
Air Cooler (evaporative)	150-800	▪ Compact Fluorescent	9-15
Angle Grinder (100mm)	1200-1800	▪ incandescent	40-100
Angle Grinder (230mm)	2400	▪ Hologen	250-400
Bricksaw	2400-5000	▪ Floodlights – small	250
Clock Radio	60	▪ Floodlights – large	500-1500
Clothes Drier	2400	Microwave	1300
Coffee Machine	600-2400	Oven	
Computer	150-300	▪ Mini	800
Concrete Mixer	1200-2400	▪ Conventional	2400
Dishwasher	2400	▪ Fan Forced	1800
Drill – Hammer	650-1400	Radio	60
Drill – Power	450-800	Range	
Fan		▪ Small hotplates	1000
▪ Exhaust	40	▪ Large hotplates	2000
▪ Ceiling	100	▪ Cooktop – Ceramic	1000-2000
Food Blender	450	▪ Cooktop – Electric Solid	2000-4800
Food Processor	450	Refrigerator (4 star rating)	150-650
Freezer (4 star rating)	150-300	Sewing machine	75
Frypan – electric	1350	Shaver	15
Hairdryer	1200-1600	Stereo	100
Hand Saw	2400	Television	75-300
Heater		Toaster	600-1250
▪ Oil filled column	1000-2400	Vacuum Cleaner	1000-2400
▪ Radiators / portable fan	600-2400	Washing Machine	500-2400
▪ Space	3600-7000	Welder* (240V/140 Amp)	Min 6000
Hot Water Service	2400-4800		



### Electric Motors

The average Watts that have be used to size a generating set takes into account the power lost within the electric motor, the extra power required by the motor each time it is started and the additional power that the generator can provide above its normal rating.

The Watts shown here assume that the motor will, once started, be required to operate at its full output power continuously.

Watts on Motor Name Plate	Average Input Power Required	Average Watts
180W (¼HP)	240W	720
250W (⅓HP)	340W	1000
370W (½HP)	500W	1480
550W (¾HP)	740W	2200
750W (1HP)	1000W	3000
1100W (1½HP)	1475W	4400
1500W (2HP)	2000W	6000
1870W (2½HP)	2500W	7450
2200W (3HP)	2950W	8500

\* To power welders, we recommend a minimum size set of 6.0kW for general field use.