HOW TO MATCH YOUR GENERATOR TO YOUR POWER DEMANDS

1. First, discover your total electrical load, using the power chart. Make a list of all lights and electrical appliances you wish your generator to supply.
2. Establish your steady state load - the lights and appliances you expect to operate at any one time.
3. When electric motors form part of your appliances (see note below), calculate your maximum demand by adding the extra power required to start the electric motor to your steady state load.
4. Choose your generator to match your maximum power demand.

Note: Electric motors need more power to start than to run. Use the simple formula of 3 x the motor horsepower to add to your required kW. For motors starting under load (e.g compressors) or submersible pumps, a higher value is required. This guide applies to modern motor design only.

(*Caution required when using sensitive electronic equipment.)

APPROXIMATE POWER CONSUMPTION CHART

APPLIANCE	WATTS	STARTING WATTS
Air Conditioner (caravan)	900 - 2000	
Clothes Dryer	2,400	
Computer (desktop/laptop)	800/500	
Drill 3/8" : 1/2"	475/750	750/900
Electric Motor:1/4 hp	180	540
1/2 hp	375	1,125
1 hp	750	2,250
2 hp	1,500	4,500
Hot Water Heater (caravan)	1,500	
Iron	900 - 1,200	
Kettle or Jug	1,600 - 3,000	
Lights	60 - 200	
Microwave Oven	600 - 1,200	900 - 1,600
Radiator	1,000 - 2,500	
Refrigerator	200 - 500	
Refrigerator (caravan)	100 - 250	
Television Set	200	
Toaster	750 - 1,250	
Washing Machine	500 - 1,000	500 - 3,000
Welder 140 amps		4,000
9' Angle Grinder		2,300

CONVERSION TABLE
Use these recommendations as a guide only as output can vary from appliance brand and models. To convert watts to KVA @ 0.8PF, divide watts by 0.8 (eg; 2,000 watts = 2.5KVA, 3,000 watts = 3.75KVA, 4,800 watts = 6KVA.) To convert KVA to kW @ 0.8PF, multiply KVA x 0.8. 1000 watts @ 240 volts = 4.17 amps approximately.

CHOOSE FROM THE RUGGED, RELIABLE READY-TO-GO CUMMINS PORTABLE RANGE

CUMMINS MODEL		APPLICATION	OUTPUT (watts)
CAMPING	P1100	Caravan & Camping - Runs a caravan fridge, T.V. and lights all at the same time	700
INVERTER	P1700i	Caravan & Camping - All the P1100 powers plus a Tuckerbox freezer or microwave oven	1400
	P3200ie	Caravan air conditioner, coffee machine, bread makers etc. Sensitive equipment up to 2800 watts	2800
	P4300ie	Ideal quiet home or office back up power, small mobile van power etc. Sensitive equipment up to 3800 watts	3800
COMMERCIAL	P2200	Light General Use - 0.75 hp motors, lighting and power tools up to 2,000 watts	2000
	P2600	Light General Use - 0.75 hp motors, lighting and power tools up to 2,500 watts	2500
	P4500	Medium General Use - Power tools up to 4,000 watts	4000
	PX4800e	Medium General Use - 9" Anglegrinder, small air conditioners, power tools up to 3,500 watts	3500
	P5000e	General Use - 2 hp motors, most 140 amp welders, air compressors, multi-head shearing plant	5000
	PX6100e	Medium General Use - Power tools up to 4,400 watts	4400
	PX7500e	General Use - 2 hp motors, most 140 amp welders, air compressors, multi-head shearing plant	5500
	PX12000e	General Use - 5 hp motors, most 250 amp welders, compressors or a wool press	8500