## PRACTICAL EXAMPLE AND REQUIRED POWER

Heater	Load	Nominal Power (W)	Starting coefficient	Needed Power (W)
Air conditioning         2000         3         6000           Fridge / Freezer         500         3         1500           Microwave oven         600         2,5         1500           Electric hob         2000         1         2000           Dough mixer         1000         3,5         3500           Cutter / Mixer / robot         1000         2,5         2500           Vacuum cleaner         1000         2         2000           Computer         250         2         500           Plasma TV         300         3         900           Boiler         300         2         600           Printers         150         1         150           Photocopier         1600         1,1         1760           LPS         500         1,5         750           CARDENING           Lawn mower         1100         2,2         2420           Brush cutter         350         3         1050           Hedge trimmer         700         2,5         1750           Leaf blower/ leaf vacuum         2000         1,25         2500           Chainsaw         2000         3 <td>HOME - OFFICE</td> <td></td> <td></td> <td></td>	HOME - OFFICE			
Fridge / Freezer         500         3         1500           Microwave oven         600         2,5         1500           Electric hob         2000         1         2000           Dough mixer         1000         3,5         3500           Cutter / Mixer / robot         1000         2,5         2500           Vacuum cleaner         1000         2         2000           Computer         250         2         500           Plasma TV         300         3         900           Boiler         300         2         600           Printers         150         1         150           Photocopier         1600         1,1         1760           UPS         500         1,5         750           GARDENING           Lawn mower         1100         2,2         2420           Brush cutter         350         3         1050           Hedge trimmer         700         2,5         1750           Leaf blower/ leaf vacuum         2000         1,25         2500           Chainsaw         2000         3         6000           Band saw         400         2,5	Heater	2000	1,2	2400
Microwave oven   600   2,5   1500	Air conditioning	2000	3	6000
Electric hob	Fridge / Freezer	500	3	1500
Dough mixer   1000   3,5   3500	Microwave oven	600	2,5	1500
Cutter / Mixer / robot         1000         2,5         2500           Vacuum cleaner         1000         2         2000           Computer         250         2         500           Plasma TV         300         3         900           Boiler         300         2         600           Printers         150         1         150           Photocopier         1600         1,1         1760           UPS         500         1,5         750           GARDENING           Lawn mower         1100         2,2         2420           Brush cutter         350         3         1050           Hedge trimmer         700         2,5         1750           Leaf blower/ leaf vacuum         2000         1,25         2500           Chainsaw         2000         2         4000           Pressure washer         2500         3,5         8750           PROFESSIONAL         2         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000<	Electric hob	2000	1	2000
Vacuum cleaner         1000         2         2000           Computer         250         2         500           Plasma TV         300         3         900           Boiler         300         2         600           Printers         150         1         150           Photocopier         1600         1,1         1760           UPS         500         1,5         750           GARDENING           Lawn mower         1100         2,2         2420           Brush cutter         350         3         1050           Hedge trimmer         700         2,5         1750           Leaf blower/ leaf vacuum         2000         1,25         2500           Chainsaw         2000         2         4000           Pressure washer         2500         3,5         8750           PROFESSIONAL           Compressor         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000         2,5         2500           Plast	Dough mixer	1000	3,5	3500
Computer	Cutter / Mixer / robot	1000	2,5	2500
Plasma TV         300         3         900           Boiler         300         2         600           Printers         150         1         150           Photocopier         1600         1,1         1760           UPS         500         1,5         750           GARDENING           Lawn mower         1100         2,2         2420           Brush cutter         350         3         1050           Hedge trimmer         700         2,5         1750           Leaf blower/ leaf vacuum         2000         1,25         2500           Chainsaw         2000         2         4000           Pressure washer         2500         3,5         8750           PROFESSIONAL           Compressor         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000         2,5         2500           Plastering machine         2200         3,5         7700           Pneumatic drill         1200         1,2         1440	Vacuum cleaner	1000	2	2000
Boiler         300         2         600           Printers         150         1         150           Photocopier         1600         1,1         1760           UPS         500         1,5         750           GARDENING           Lawn mower         1100         2,2         2420           Brush cutter         350         3         1050           Hedge trimmer         700         2,5         1750           Leaf blower/ leaf vacuum         2000         1,25         2500           Chainsaw         2000         2         4000           Pressure washer         2500         3,5         8750           PROFESSIONAL           Compressor         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000         2,5         2500           Plastering machine         2200         3,5         7700           Pneumatic drill         1200         1,2         1440           Grinder         1400         3         4200<	Computer	250	2	500
Printers 150 1 150 Photocopier 1600 1,1 1760 UPS 500 1,5 750  GARDENING  Lawn mower 1100 2,2 2420 Brush cutter 350 3 1050 Hedge trimmer 700 2,5 1750  Leaf blower/ leaf vacuum 2000 1,25 2500 Chainsaw 2000 2 4000 Pressure washer 2500 3,5 8750  PROFESSIONAL  Compressor 2000 3 6000 Band saw 400 2,5 1000 Concrete mixer 800 3,5 2800 Belt vibrating sander 1000 2,5 2500 Plastering machine 2200 3,5 7700 Pneumatic drill 1200 1,2 1440 Grinder 1400 3 4200 Circular saw 1800 2,5 4500 Demolition hammer 1200 3,5 4200 Submersible pump 500 3,5 1750 Inverter 1500 2,5 3750 Mixer 1400 3,5 4900 Inverter welding machine 2000 2,5 5000 Inverter welding machine 2000 2,5 5000 Inverter welding machine 2000 2,5 5000 Inverter welding machine 4000 2 8000  LIGHTING Halogen lamps 500 1 500 Neon 60 2 120 Incandescence light bulbs 100 1 100 Metal halide lamps 500 2 1000	Plasma TV	300	3	900
Photocopier         1600         1,1         1760           UPS         500         1,5         750           GARDENING           Lawn mower         1100         2,2         2420           Brush cutter         350         3         1050           Hedge trimmer         700         2,5         1750           Leaf blower/ leaf vacuum         2000         1,25         2500           Chainsaw         2000         2         4000           Pressure washer         2500         3,5         8750           PROFESSIONAL         Tompressor         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000         2,5         2500           Plastering machine         2200         3,5         7700           Pneumatic drill         1200         1,2         1440           Grinder         1400         3         4200           Circular saw         1800         2,5         4500           Demolition hammer         1200         3,5         4700	Boiler	300	2	600
UPS         500         1,5         750           GARDENING           Lawn mower         1100         2,2         2420           Brush cutter         350         3         1050           Hedge trimmer         700         2,5         1750           Leaf blower/ leaf vacuum         2000         1,25         2500           Chainsaw         2000         2         4000           Pressure washer         2500         3,5         8750           PROFESSIONAL           Compressor         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000         2,5         2500           Plastering machine         2200         3,5         7700           Pneumatic drill         1200         1,2         1440           Grinder         1400         3         4200           Circular saw         1800         2,5         4500           Demolition hammer         1200         3,5         4200           Submersible pump         500         3,5         17	Printers	150	1	150
GARDENING           Lawn mower         1100         2,2         2420           Brush cutter         350         3         1050           Hedge trimmer         700         2,5         1750           Leaf blower/ leaf vacuum         2000         1,25         2500           Chainsaw         2000         2         4000           Pressure washer         2500         3,5         8750           PROFESSIONAL           Compressor         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000         2,5         2500           Plastering machine         2200         3,5         7700           Pneumatic drill         1200         1,2         1440           Grinder         1400         3         4200           Circular saw         1800         2,5         4500           Demolition hammer         1200         3,5         1750           Inverter         1500         2,5         3750           Mixer         1400         3,5         4900<	Photocopier	1600	1,1	1760
Lawn mower         1100         2,2         2420           Brush cutter         350         3         1050           Hedge trimmer         700         2,5         1750           Leaf blower/ leaf vacuum         2000         1,25         2500           Chainsaw         2000         2         4000           Pressure washer         2500         3,5         8750           PROFESSIONAL           Compressor         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000         2,5         2500           Plastering machine         2200         3,5         7700           Pneumatic drill         1200         1,2         1440           Grinder         1400         3         4200           Circular saw         1800         2,5         4500           Demolition hammer         1200         3,5         4750           Inverter         1500         2,5         3750           Mixer         1400         3,5         4900           Transformer welding ma	UPS	500	1,5	750
Brush cutter         350         3         1050           Hedge trimmer         700         2,5         1750           Leaf blower/ leaf vacuum         2000         1,25         2500           Chainsaw         2000         2         4000           Pressure washer         2500         3,5         8750           PROFESSIONAL           Compressor         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000         2,5         2500           Plastering machine         2200         3,5         7700           Pneumatic drill         1200         1,2         1440           Grinder         1400         3         4200           Circular saw         1800         2,5         4500           Demolition hammer         1200         3,5         1750           Inverter         1500         2,5         3750           Mixer         1400         3,5         4900           Transformer welding machine         2000         2,5         5000           Inver	GARDENING			
Hedge trimmer         700         2,5         1750           Leaf blower/ leaf vacuum         2000         1,25         2500           Chainsaw         2000         2         4000           Pressure washer         2500         3,5         8750           PROFESSIONAL           Compressor         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000         2,5         2500           Plastering machine         2200         3,5         7700           Pneumatic drill         1200         1,2         1440           Grinder         1400         3         4200           Circular saw         1800         2,5         4500           Demolition hammer         1200         3,5         4200           Submersible pump         500         3,5         1750           Inverter         1500         2,5         3750           Mixer         1400         3,5         4900           Transformer welding machine         2000         2,5         5000 <td< td=""><td>Lawn mower</td><td>1100</td><td>2,2</td><td>2420</td></td<>	Lawn mower	1100	2,2	2420
Leaf blower/ leaf vacuum         2000         1,25         2500           Chainsaw         2000         2         4000           Pressure washer         2500         3,5         8750           PROFESSIONAL           Compressor         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000         2,5         2500           Plastering machine         2200         3,5         7700           Pneumatic drill         1200         1,2         1440           Grinder         1400         3         4200           Circular saw         1800         2,5         4500           Demolition hammer         1200         3,5         4200           Submersible pump         500         3,5         1750           Inverter         1500         2,5         3750           Mixer         1400         3,5         4900           Transformer welding machine         2000         2,5         5000           Inverter welding machine         4000         2         8000	Brush cutter	350	3	1050
Chainsaw         2000         2         4000           Pressure washer         2500         3,5         8750           PROFESSIONAL           Compressor         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000         2,5         2500           Plastering machine         2200         3,5         7700           Pneumatic drill         1200         1,2         1440           Grinder         1400         3         4200           Circular saw         1800         2,5         4500           Demolition hammer         1200         3,5         4200           Submersible pump         500         3,5         1750           Inverter         1500         2,5         3750           Mixer         1400         3,5         4900           Transformer welding machine         2000         2,5         5000           Inverter welding machine         4000         2         8000           LIGHTING           Halogen lamps         500         1	Hedge trimmer	700	2,5	1750
Pressure washer         2500         3,5         8750           PROFESSIONAL           Compressor         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000         2,5         2500           Plastering machine         2200         3,5         7700           Pneumatic drill         1200         1,2         1440           Grinder         1400         3         4200           Circular saw         1800         2,5         4500           Demolition hammer         1200         3,5         4200           Submersible pump         500         3,5         1750           Inverter         1500         2,5         3750           Mixer         1400         3,5         4900           Transformer welding machine         2000         2,5         5000           Inverter welding machine         4000         2         8000           LIGHTING           Halogen lamps         500         1         500           Neon         60         2         120 <td>Leaf blower/ leaf vacuum</td> <td>2000</td> <td>1,25</td> <td>2500</td>	Leaf blower/ leaf vacuum	2000	1,25	2500
PROFESSIONAL           Compressor         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000         2,5         2500           Plastering machine         2200         3,5         7700           Pneumatic drill         1200         1,2         1440           Grinder         1400         3         4200           Circular saw         1800         2,5         4500           Demolition hammer         1200         3,5         4200           Submersible pump         500         3,5         1750           Inverter         1500         2,5         3750           Mixer         1400         3,5         4900           Transformer welding machine         2000         2,5         5000           Inverter welding machine         4000         2         8000           LIGHTING           Halogen lamps         500         1         500           Neon         60         2         120           Incandescence light bulbs         100         1         1	Chainsaw	2000	2	4000
Compressor         2000         3         6000           Band saw         400         2,5         1000           Concrete mixer         800         3,5         2800           Belt vibrating sander         1000         2,5         2500           Plastering machine         2200         3,5         7700           Pneumatic drill         1200         1,2         1440           Grinder         1400         3         4200           Circular saw         1800         2,5         4500           Demolition hammer         1200         3,5         4200           Submersible pump         500         3,5         1750           Inverter         1500         2,5         3750           Mixer         1400         3,5         4900           Transformer welding machine         2000         2,5         5000           Inverter welding machine         4000         2         8000           LIGHTING         4         500         1         500           Neon         60         2         120           Incandescence light bulbs         100         1         100           Metal halide lamps         500	Pressure washer	2500	3,5	8750
Band saw       400       2,5       1000         Concrete mixer       800       3,5       2800         Belt vibrating sander       1000       2,5       2500         Plastering machine       2200       3,5       7700         Pneumatic drill       1200       1,2       1440         Grinder       1400       3       4200         Circular saw       1800       2,5       4500         Demolition hammer       1200       3,5       4200         Submersible pump       500       3,5       1750         Inverter       1500       2,5       3750         Mixer       1400       3,5       4900         Transformer welding machine       2000       2,5       5000         Inverter welding machine       4000       2       8000         LIGHTING         Halogen lamps       500       1       500         Neon       60       2       120         Incandescence light bulbs       100       1       100         Metal halide lamps       500       2       1000	PROFESSIONAL			
Concrete mixer       800       3,5       2800         Belt vibrating sander       1000       2,5       2500         Plastering machine       2200       3,5       7700         Pneumatic drill       1200       1,2       1440         Grinder       1400       3       4200         Circular saw       1800       2,5       4500         Demolition hammer       1200       3,5       4200         Submersible pump       500       3,5       1750         Inverter       1500       2,5       3750         Mixer       1400       3,5       4900         Transformer welding machine       2000       2,5       5000         Inverter welding machine       4000       2       8000         LIGHTING         Halogen lamps       500       1       500         Neon       60       2       120         Incandescence light bulbs       100       1       100         Metal halide lamps       500       2       1000	Compressor	2000	3	6000
Belt vibrating sander       1000       2,5       2500         Plastering machine       2200       3,5       7700         Pneumatic drill       1200       1,2       1440         Grinder       1400       3       4200         Circular saw       1800       2,5       4500         Demolition hammer       1200       3,5       4200         Submersible pump       500       3,5       1750         Inverter       1500       2,5       3750         Mixer       1400       3,5       4900         Transformer welding machine       2000       2,5       5000         Inverter welding machine       4000       2       8000         LIGHTING         Halogen lamps       500       1       500         Neon       60       2       120         Incandescence light bulbs       100       1       100         Metal halide lamps       500       2       1000	Band saw	400	2,5	1000
Plastering machine         2200         3,5         7700           Pneumatic drill         1200         1,2         1440           Grinder         1400         3         4200           Circular saw         1800         2,5         4500           Demolition hammer         1200         3,5         4200           Submersible pump         500         3,5         1750           Inverter         1500         2,5         3750           Mixer         1400         3,5         4900           Transformer welding machine         2000         2,5         5000           Inverter welding machine         4000         2         8000           LIGHTING           Halogen lamps         500         1         500           Neon         60         2         120           Incandescence light bulbs         100         1         100           Metal halide lamps         500         2         1000	Concrete mixer	800	3,5	2800
Pneumatic drill       1200       1,2       1440         Grinder       1400       3       4200         Circular saw       1800       2,5       4500         Demolition hammer       1200       3,5       4200         Submersible pump       500       3,5       1750         Inverter       1500       2,5       3750         Mixer       1400       3,5       4900         Transformer welding machine       2000       2,5       5000         Inverter welding machine       4000       2       8000         LIGHTING         Halogen lamps       500       1       500         Neon       60       2       120         Incandescence light bulbs       100       1       100         Metal halide lamps       500       2       1000	Belt vibrating sander	1000	2,5	2500
Grinder       1400       3       4200         Circular saw       1800       2,5       4500         Demolition hammer       1200       3,5       4200         Submersible pump       500       3,5       1750         Inverter       1500       2,5       3750         Mixer       1400       3,5       4900         Transformer welding machine       2000       2,5       5000         Inverter welding machine       4000       2       8000         LIGHTING         Halogen lamps       500       1       500         Neon       60       2       120         Incandescence light bulbs       100       1       100         Metal halide lamps       500       2       1000	Plastering machine	2200	3,5	7700
Circular saw       1800       2,5       4500         Demolition hammer       1200       3,5       4200         Submersible pump       500       3,5       1750         Inverter       1500       2,5       3750         Mixer       1400       3,5       4900         Transformer welding machine       2000       2,5       5000         Inverter welding machine       4000       2       8000         LIGHTING         Halogen lamps       500       1       500         Neon       60       2       120         Incandescence light bulbs       100       1       100         Metal halide lamps       500       2       1000	Pneumatic drill	1200	1,2	1440
Demolition hammer       1200       3,5       4200         Submersible pump       500       3,5       1750         Inverter       1500       2,5       3750         Mixer       1400       3,5       4900         Transformer welding machine       2000       2,5       5000         Inverter welding machine       4000       2       8000         LIGHTING         Halogen lamps       500       1       500         Neon       60       2       120         Incandescence light bulbs       100       1       100         Metal halide lamps       500       2       1000	Grinder	1400	3	4200
Submersible pump       500       3,5       1750         Inverter       1500       2,5       3750         Mixer       1400       3,5       4900         Transformer welding machine       2000       2,5       5000         Inverter welding machine       4000       2       8000         LIGHTING         Halogen lamps       500       1       500         Neon       60       2       120         Incandescence light bulbs       100       1       100         Metal halide lamps       500       2       1000	Circular saw	1800	2,5	4500
Inverter         1500         2,5         3750           Mixer         1400         3,5         4900           Transformer welding machine         2000         2,5         5000           Inverter welding machine         4000         2         8000           LIGHTING         Halogen lamps         500         1         500           Neon         60         2         120           Incandescence light bulbs         100         1         100           Metal halide lamps         500         2         1000	Demolition hammer	1200	3,5	4200
Mixer       1400       3,5       4900         Transformer welding machine       2000       2,5       5000         Inverter welding machine       4000       2       8000         LIGHTING         Halogen lamps       500       1       500         Neon       60       2       120         Incandescence light bulbs       100       1       100         Metal halide lamps       500       2       1000	Submersible pump	500	3,5	1750
Transformer welding machine         2000         2,5         5000           Inverter welding machine         4000         2         8000           LIGHTING           Halogen lamps         500         1         500           Neon         60         2         120           Incandescence light bulbs         100         1         100           Metal halide lamps         500         2         1000	Inverter	1500	2,5	3750
Inverter welding machine         4000         2         8000           LIGHTING         8000         1         500           Halogen lamps         500         1         500           Neon         60         2         120           Incandescence light bulbs         100         1         100           Metal halide lamps         500         2         1000	Mixer	1400	3,5	4900
LIGHTING       Halogen lamps     500     1     500       Neon     60     2     120       Incandescence light bulbs     100     1     100       Metal halide lamps     500     2     1000	Transformer welding machine	2000	2,5	5000
Halogen lamps       500       1       500         Neon       60       2       120         Incandescence light bulbs       100       1       100         Metal halide lamps       500       2       1000	Inverter welding machine	4000	2	8000
Neon         60         2         120           Incandescence light bulbs         100         1         100           Metal halide lamps         500         2         1000	LIGHTING			
Incandescence light bulbs 100 1 100  Metal halide lamps 500 2 1000	Halogen lamps	500	1	500
Metal halide lamps 500 2 1000	Neon	60	2	120
	Incandescence light bulbs	100	1	100
Led lamp 500 1 500	Metal halide lamps	500	2	1000
	Led lamp	500	1	500