INFORMATION SHEET

HIRE DEPOT

GENERATOR

What generator do you need?

(Rough guide only)

1 KVA = 4 AMPS
1 KVA = 800 WATTS (In theory 1000 WATTS)
740 WATTS = 1 HP

Generators should give 3 times rated output on start.

TWO TYPES OF LOAD

1. RESISTIVE = Constant (e.g. almost anything with brushes, lighting
Measure in KW

2. INDUCTIVE = Starting (e.g. capacitors, items with 'fly wheels,
≈ bench, grinder, compressor.
Measure in KVA

Compressor will use 6x normal draw to start (e.g. 1000 WATT unit needs 6000W to start (or 3000 generator - KVA to be safe)

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3 PHASE GENERATORS

3 Phase AMPS - Refer to AMPS *per phase*

Therefore divide KVA by 3 to get KVA per phase.
12KVA ÷ 3 = 4KVA per phase

CONVERSIONS TO AMPS

KVA x 1000 = WATTS	**4 x 1000 = 4000W**
Divide WATTS / VOLTS = AMPS	4000 ÷ 240 = 16.67 AMPS

GENERATOR OUTPUT CONVERSION = ESTIMATES ONLY

Generator with: **2HP motor** ≈ 1 KVA output
4HP motor ≈ 2 KVA output
Speed = frequency, therefore 3000RPM — 50Hz

Note: To avoid damage electronics may need smoother power than our standard 'builders generators' supply.

For more information please speak to the Hiredepot team.