

Generators - Handy Hints

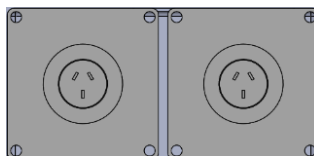


The Makinex generator range follow the Australian Standard AS 60038 which was adopted in 2000 and is 230 V with an allowed tolerance of +10% -6%. This means the voltage can be anything between 216 and 253 Volts.

6kVA Generators:

The 6 kVA Honda GX270 Petrol generator delivers 3.2kW (4kVA) on full load through the 15A single phase outlet.

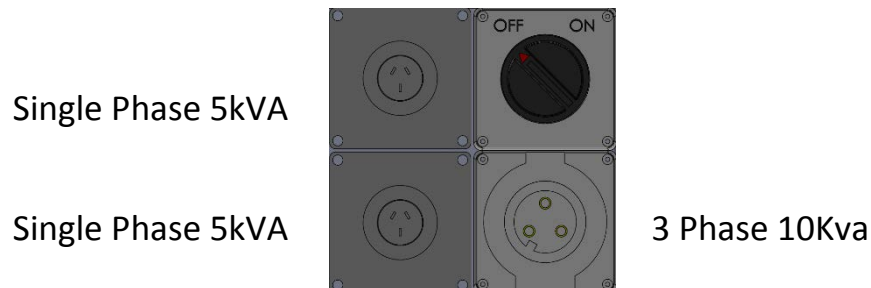
- Engine set to 3100rpm = 252V
- Full load 6kW = 216V --> $5.8\text{kW} / 0.8 = 7.2\text{kVA}$
- Max Load from individual sockets: 4kVA



10kVA Generators

The 10 kVA Honda GX390 Petrol generator delivers 4kW (5kVA) through each 15A single phase outlet or 8kW (10kVA) through the 3 phase 20A outlet

- Engine set to 100rpm = 252V
- Full load 8kW = 216V --> $8\text{kW} / 0.8 = 10\text{kVA}$
- Max Load from individual sockets:



9kVA Generators

The 9 kVA Kohler / Hatz Diesel generator delivers 4kW (5kVA) through each 15A single phase outlet or 7kW through a 3 phase 20A outlet. In reality it can produce as much real life power as the petrol 10Kva due to the torque of the diesel engine.

- Engine set to 3100rpm = 252V
- Full load 7kW = 216V --> $7.2\text{kW} / 0.8 = 9\text{kVA}$
- Max Load from individual sockets:



Alternator Characteristics

1. Very high efficiency 92%.
2. Excellent THD, <3%, no transients, no voltage spike on load rejection.
3. Small footprint and lightweight.
4. No electronics, increased reliability and robustness.
5. Bearing is the only wearing component.
6. Permanent Magnet Rotor
7. IP 23 Protection