

## Powerguard PS 18 Generator

The generator is specially designed for this application with an emphasis on fuel efficiency. It has a Perkins 404C-22G engine coupled to a purpose wound single phase alternator. It has an acoustic canopy to reduce noise and can be sited outside if necessary.

### Scope

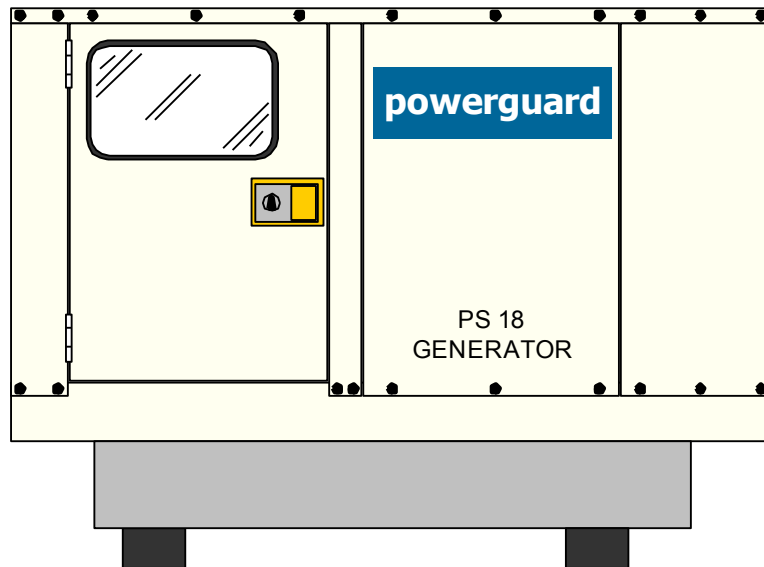
|                  |  |
|------------------|--|
| Frequency        | 50 Hz  |
| Speed            | 1500 RPM   |
| Voltage          | 230 VAC  |
| Phases           | 1 Ø + N  |
| Power factor     | 0.8  |
| Prime Power      | 18kVA/14.4 kW  |
| Fuel consumption | ≈ 4.8 Litres/hour at 100% load<br>≈ 3.6 Litres/hour at 75% load<br>≈ 2.6 Litres/hour at 50% load |

Prime power is the rating for supplying power in lieu of utility with a variable load factor of 70% average in 24 hour operation. 10% overload available for maximum 1 hour in every 12.

### Brief Description

- 1) Set mounted tropical duty radiator
- 2) Engine driven cooling fan
- 3) Standard fuel, lubricant and air filters
- 4) Mechanical governor
- 5) 12 VDC electric start with set mounted battery
- 6) Alternator mounted auto-start control panel
- 7) AC/DC monitoring instruments
- 8) MCB on output
- 9) DSE 521K controller
- 10) Engine protection for: low oil pressure – high engine temp.
- 11) Over speed protection with tacho pickup.
- 12) Anti vibration mounts for engine/alternator
- 13) 63 litre capacity fuel tank incorporated in the galvanised chassis
- 14) 75 dba @ 1 m acoustic enclosure – powder coated RAL9010 (white)
- 15) Internal exhaust silencer
- 16) Central lifting point
- 17) Fork lift pockets under the base
- 18) Control panel viewing window
- 19) Weather proof emergency stop button
- 20) First fill coolant/anti freeze and oil
- 21) CE compliant
- 22) Comprehensive user manual
- 23) Standard works test to ISO 8528
- 24) Three way fuel valve to facilitate connection to a bulk tank
- 25) Glo-plug cold start for increased efficiency

- 26) Size: 1600mm w x 1180mm h x 730mm d  
27) Weight: 950kgs



Sketch showing the front view of the Powerguard PS 18 Generator