



## 1. ENGINE

Perkins four stroke heavy duty high performance industrial type diesel engine.

## 2. COOLING RADIATOR

Radiator and cooling fan, complete with safety guards, designed to cool engine at high ambient temperatures (consult your dealer for de-ration factors)

## 3. EXHAUST SYSTEM

Heavy duty Industrial Exhaust Silencer

Silencer noise reduction level	22 (dB)
Maximum allowable back pressure	10.0 (kPa)

## 4. ENGINE FILTRATION SYSTEM

- Cartridge type dry air filter.
  - Two Cartridge type fuel filters.
  - Full flow lube oil filter.
- All filters have replaceable elements.

## 5. CIRCUIT BRAKER TYPE

ABB 3 pole MCCB. (4 pole is optional)

## 6. FUEL SYSTEM

The baseframe design is incorporated with an integral fuel tank with a capacity of approx. 8 hours running at Full Load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and drain plug.

## STANDAR REFERENCE CONDITIONS

### Prime Power

These ratings are applicable for supplying continuous electrical power (at variable load) in lieu of commercially purchased power. 10% overload power is available for 1 hour in 12 hours continuous operation.

### Standby Power

These ratings are applicable for supplying continuous electrical power (at variable load) in the event of a utility power failure. No overload is permitted on these ratings.

## DIMENSIONS AND WEIGHT

Length cm	Width cm	Height cm	Weight* kg(wet)
127	54	107	475

## 7. MOUNTING ARRANGEMENT

### 7.1 BASE FRAME

The complete Generating Set is mounted as a whole on a heavy duty fabricated steel Baseframe.

### 7.2 COUPLING

The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor.

### 7.3 ANTI-VIBRATION MOUNTING PADS

Anti-Vibration pads are affixed between the Engine/ Alternator feet and the Baseframe thus ensuring complete vibration isolation of the rotating assemble.

### 7.4 SAFETY GUARDS

The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

## 8. ALTERNATOR

### 8.1 INSULATION SYSTEM

- The insulation system is Class H.
- All windings are impregnated in either a triple dip thermosetting liquid, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester resin.
- Heavy coat of antitracking varnish additional protection against moisture or condensation.

### 8.2 AUTOMATIC VOLTAGE REGULATOR (AVR)

The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at  $\pm 0.5\%$ . Norminal adjustment by means of a trim pot incorporated on the AVR.

### 8.3 MOTOR STARTING

An overload capacity equivalent to 300% of the Full Load impedance at zero Power Factor can be sustained for 10 seconds, when AREP or PMG option is fitted.

## 9. DOCUMENTATION

Operation & Maintenance manual, Circuit wiring diagrams and Commissioning/ Fault Finding instruction leaflets are accompanied with the Generator.

## 10. EQUIPMENT FINISHING

All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability.

## 11. FACTORY TEST

- The Generating set is load tested before dispatch
- All protective devices control functions and site load conditions are simulated. The generator and it's systems are checked before dispatch.

## 12. QUALITY STANDARDS

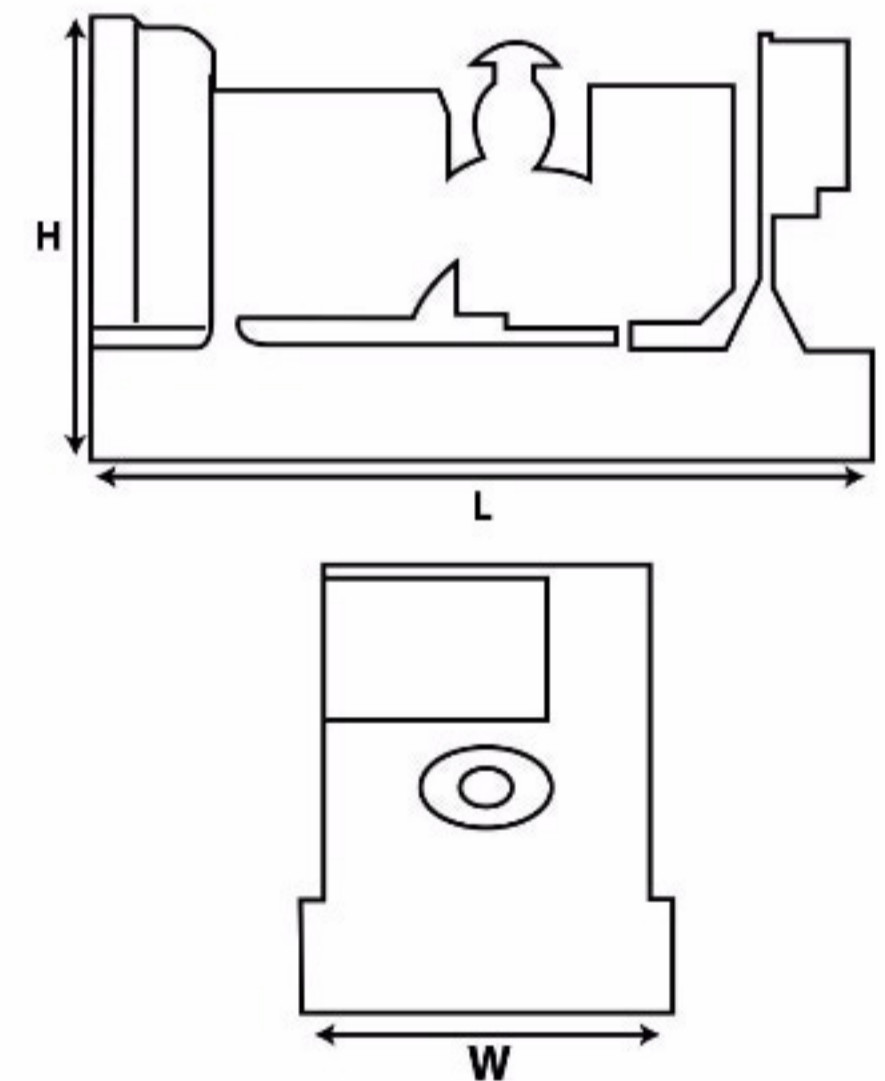
The equipment meets the following standards: BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

## 13. WARRANTY

All of the Generating Sets are covered under a warranty policy for a period of 24 months. Warranty of the equipment is i line with manufacturers warranty terms & conditions.

(check warranty statement for more details, as it may vary for different countries)

In line with continuous product development, we reserve the right to change specifications without notice.



**Power**  
**max**  
smart genset

**Engineering & Services**

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