

1- POWER RATINGS

Power ratings are listed on each Generator Set single page specification sheet.

1.1 SPEED/FREQUENCY

1500RPM/50Hz or 1800RPM/60Hz

*Some models are not switchable, review model specification sheet.

1.2 VOLTAGE

All voltage (LV) standard ratings are available.

*Some models are with Limited Voltage range, review model specification sheet.

2.ENGINE

Perkins & Lister Petter heavy-duty industrial diesel engines. Technical details are listed on the single page specification sheet.

2.1 Electrical System

12 & 24 Volts Dc.

3. COOLING RADIATOR.

Radiator and Cooling fan, complete with safety Guards, designed to cool the engine at temperatures of 50 °C to 55 °C.

4. ENGINE FILTRATIONS SYSTEM

- Cartridge type dry air filters
- Cartridge type fuel filters
- Full flow lube oil filters.

All filters have replaceable elements.

5. EXHAUST SYSTEM

Heavy duty Industrial Exhaust Silencer

6. ALTERNATOR

Leroy Somer/Stamford Alternator brands

- Self Excited
- Self regulating brushless Alternator, with fully interconnected damper windings
- ICO6 cooling system and sealed-for - life bearing
- 12 end re-connectable windings, providing a wide range of 3 phase voltages.

Note: In some models the Alternators have 6 end windings.

6.1 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.

6.2 Automatic Voltage Regulator

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

6.3 Motor Starting

An overload capacity equivalent to 160% and 300% (depending on alternator frame size) of the Full Load impedance at zero Power Factor can be sustained for 10 seconds.

7. CONTROL PANEL

Standard control module is Deep Sea controller DSE6110.

The DSE6110 is an Auto Start Control Module for single gen-set applications. It has been designed to work with electronic and non-electronic engines providing advanced engine monitoring and protection features. The module includes a backlit LCD display which clearly shows the status of the engine at all times. It monitors, speed, frequency, voltage, current, oil pressure, and coolant temperature. The module has also been designed to display the warning and shutdown status of the engine. It includes six digital inputs and six outputs. Two of the outputs are configurable on the magnetic pick-up version and all six are configurable on the Canbus version. The module can either be programmed using the front panel or by using the DSE Configuration Suite PC software.

Other modules for special applications are available as options such as but not limited to;

- DSE8610 for Synchronizing applications.
- DSE7320 for power readings (KVA, KW, KVAR & pf) and remote monitoring application

8. MOUNTING ARRANGEMENT

8.1 Base frame

The complete Generating Set is mounted as a whole on a heavy duty fabricated steel Baseframe. The Baseframe incorporates a specially designed Fuel tank.

8.2 Coupling

The Engine and Alternator are directly coupled by means of an SAE flange, so that there is no possibility of misalignment after prolonged use. The Engine flywheel is flexibly coupled to the Alternator rotor and a full torsional analysis has been carried out to guarantee no harmful vibration will occur in the assembly.

8.3 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 assembly.

8.4 Safety Guards

The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection. A stone guard protects the radiator core from accidental damage.

9. FUEL SYSTEM

On all Generating Sets, the Baseframe design can be 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.

10. DOCUMENTATIONS

A full set of Operation and Maintenance manuals, Circuit wiring diagrams, and Commissioning/Fault Finding instruction leaflets accompany the Generator.

11. GENERAL ARRANGEMENT

The Generator Set is designed and constructed for installation in a weather protected building. Various types of sound attenuated enclosures are available.

12. FACTORY TESTS

- The Generating set is load tested before dispatch.
- All protective devices, control functions and site load conditions are simulated. The Generator and its systems are checked before dispatch.

13. EQUIPMENT FINISHING

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

14. QUALITY STANDARDS

The equipment meets the following standards: BS4999, BS5000, 2S5514 IEC 34, VDE0530, and NEMA MG-122.

Jubaili Bros are ISO 9001:2008 Certified.

The Jet Generator control panels are Libnor NL IEC 60439-1 Certified .

15. WARRANTY

All of the Generating Sets covered for a under warranty policy for a period of 12 months.

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