

# Jet<sup>®</sup> Generators

## POWERED BY:



### GENERATING SET MODEL (JP250)

Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	250 KVA 200 KW	275 KVA 220 KW

Alternators ratings may change at different voltages.

Ratings at 0.8 Power Factor

### ENGINE / TECHNICAL DATA

Engine Make	Perkins	
Engine Model	1506A-E88TAG3	
Governing Type	Electronic	
Number of Cylinders	6	
Cylinder Arrangement	Vertical in line	
Bore and Stroke mm	112 x 149	
Displacement / Cubic Capacity litres	8.8	
Induction System	Turbocharged, air to air charge cooled	
Cycle	4 stroke	
Combustion System	Direct Injection	
Compression Ratio	16.1:1	
Rotation	Anti-clockwise, viewed on flywheel	
Cooling System	Water - cooled	
Frequency and Engine Speed	50Hz & 1500rpm	

	Prime	Standby
Gross Engine Power kW	236	258
Fuel Consumption @ 50% load L/hr	28.9	-
@ 75% load L/hr	41.6	-
@ 100% load L/hr	55.5	60.7
Total Lubrication System Capacity litres	41	41
Total Coolant Capacity litres	29.6	29.6
Boost Pressure Ratio	2.8	3.0
Exhaust Temperature: °C	537	558
Radiator Cooling Air Flow (Min): m <sup>3</sup> /sec	6.16	6.16
Combustion Air Flow: m <sup>3</sup> /min	14.1	15.0
Exhaust Gas Flow: m <sup>3</sup> /min	37.5	40.4
Fuel Tank Capacity: litres	505	505

### DIMENSIONS AND WEIGHT

Length cm	Width cm	Height cm	Weight* kg (wet)
313	106	173	2136

\* For skid mounted genset without enclosure

wet weight = with lube oil and coolant

## STANDARD SPECIFICATIONS

### 1. ENGINE

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

### 2. ENGINE FILTRATION SYSTEM

- Cartridge type dry air filter.
- Cartridge type fuel filter.
- Full flow lube oil filter.
- Water filter.

All filters have replaceable elements.

### 3. COOLING RADIATOR

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

### 4. EXHAUST SYSTEM

Heavy duty Industrial Exhaust Silencer

Silencer noise reduction level	12 (dB)
Maximum allowable back pressure	10 (kPa)

### 5. CIRCUIT BREAKER TYPE

ABB 3 pole MCCB. (4 pole is optional)

(contd.)

## ALTERNATOR DATA

Make	Leroy Somer
Model	TAL 046D
No. of bearings	1
Insulation class	H
Total Harmonic Content	<3.5%
Wires	6
Ingress Protection	IP23
Excitation System	SHUNT
Winding Pitch	2/3 (n° 6)
AVR Model	R150
Overspeed	2250 mn <sup>-1</sup>
Voltage Regulation (steady)	± 1%
Short Circuit Capacity	-

AREP & PMG Excitation System Available as Optional.

## CONTROL PANEL

Make	Deep Sea
Model	DSE6110

The DSE6110 is an Auto Start Control Module for single genset applications. It includes a backlit LCD display which clearly shows the status of the engine all the times. This module can either be programmed using the front panel or by using the DSE configuration suite PC software.

### Metering and Alarm indications:

- Generator frequency
- Underspeed, Overspeed
- Generator volts (L-L, L-N)
- Generator current
- Engine oil pressure
- Engine coolant temperature
- Fuel level (Warning or shutdown) - Optional
- Hours run counter
- Battery volts
- Fail to start/stop
- Emergency stop
- Failed to reach loading voltage/frequency
- Charge fail
- Loss of magnetic pick-up signal - Optional
- Low DC voltage
- CAN diagnostics and CAN fail/error

(Please refer to DSE6110 brochure for more details)

**AN INSPIRED DESIGN TO MEET YOUR NEEDS**



**RATINGS DEFINITION**

**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.

**STANDARD REFERENCE CONDITIONS**

Output ratings are presented at 25°C air inlet temperature, barometric pressure 100 kPa, relative humidity 30%. This generating set is designed to operate at high ambient temperatures (up to 55°C), humidity (up to 99%) and higher altitudes. De-rating may apply, please consult your dealer for specific site ratings.

Some of the specifications are not standard on all Genset models.

**AVAILABLE OPTIONS & ACCESSORIES**

We offer a range of optional features and accessories to tailor our generating sets to meet your power needs.

**OPTIONS**

- A variety of generating set control and synchronizing panels
- Additional protection alarms and shutdowns
- Water fuel separator
- Water jacket heater
- Battery charger

**ACCESSORIES**

- Genuine spare parts
- Load banks
- Auxiliary fuel tanks
- Manual & automatic transfer switches

Distributed and Serviced by:



For further information on all of the standard and optional features accompanying this product please contact your local dealer or visit [www.JubailiBros.com](http://www.JubailiBros.com)



JET Generators are assembled in facilities certified to ISO 9001

All information in this document is substantially correct at time of printing and may be altered subsequently.

**STANDARD SPECIFICATIONS**

**6. FUEL SYSTEM**

On Generating Sets up to 700 KVA, 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.

**7. ALTERNATOR**

**7.1 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.

**7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)**

The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at ±1%. Nominal adjustment by means of a trim pot incorporated on the AVR.

**7.3 MOTOR STARTING**

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

**8. MOUNTING ARRANGEMENT**

**8.1 BASE FRAME**

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

**8.2 COUPLING**

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

**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.

**9. FACTORY TESTS**

- 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.

**10. EQUIPMENT FINISHING**

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

**11. DOCUMENTATIONS**

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

**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 12 months. Warranty of the equipment is in 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.