INTERNATIONAL MACHINERY & GENERATORS

Perkins 1000KVA

GENERATING SET MODEL (JP12.5)		
Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	1000 KVA	1100 KVA
	800 KW	880 KW
Iternatore ratinge may change at different voltages		Patings at 0.8 Power Factor

ENGINE / TECHNICAL DATA Engine Make Perkins **Engine Model** 4008-30TAG2 **Governing Type** ISO 8528-1 CLASS G2 Number of Cylinders 8 **Cylinder Arrangement** Vertical in Line Bore and Stroke mm 160 x 190 **Displacement / Cubic Capacity** litres 30.561 Induction System Turbocharged and air to air charge cooled Cvcle 4 stroke **Combustion System Direct Injection Compression Ratio** 13:1 Rotation Anti-clockwise, viewed from flywheel end **Cooling System** Water - cooled **Frequency and Engine Speed** 50Hz & 1500rpm Prime Standby Gross Engine Power kW (hp) 901 997 Fuel Consumption @ 50% load L/hr 108 -@ 75% load L/hr 160 _ @ 100% load L/hr 213 234 Total Lubrication System Capacity litres 153 153 Total Coolant Capacity (inc. radiator) litres 140 149 **Boost Pressure Ratio** 3.4 3.86 Exhaust Temperature: °C 462 473 Radiator Cooling Air Flow (Min): m³/sec 19.6 19.6 Combustion Air Flow: m³/min 77 84 Exhaust Gas Flow: m³/min 185 203 Fuel Tank Capacity: litres N/A N/A

ALTERNATOR DATA (Leroy Somer OR Stamford Leroy Somer Make TAL 049E Model No. of bearings 1 **Insulation class** Н **Total Harmonic Content** <5% Wires 6 IP23 Ingress Protection **Excitation System** SHUNT Winding Pitch 2/3 (n° 6S) **AVR Model** R150 **Overspeed** 2250 mn⁻ Voltage Regulation (steady) $\pm 1\%$ **Short Circuit Capacity** AREP Excitation System Available as Optional.

CONTROL PANEL	
Make	Deep Sea
Model	DSE7320

DSE7320 is an Auto Mains (Utility) Failure Control Module. It is operated via the START, STOP, AUTO and MANUAL soft touch membrane buttons on the front panel. DSE7320 can be controlled remotely using either a GSM Modem, Ethernet via DSE860/865 or via RS485.

Protection:

- · Fail to start
- Low oil pressure
- High engine temperature
- U/0 Voltage shutdown
- U/O Frequency shutdown
- Underspeed, Overspeed
- Loss of engine speed detection
- High/Low battery voltage
- kW overload
- Unbalanced load
- · Low fuel alarm (if fitted)
- Battery charger failure (if fitted)

(Please refer to DSE7320 brochure for more details)

* For skid mounted genset with enclosure

Width cm

220

DIMENSIONS AND WEIGHT

Length cm

447

STANDARD SPECIFICATIONS

1. ENGINE	2. ENGINE FILTRATION System	3. COOLING RADIATOR	4. EXHAUST SYSTEM	5. CIRCUIT BREAKER TYPE
Perkins four stroke heavy duty high performance diesel engine industrial type.	 Two Catridge type dry air filter. Catridge type fuel filter. Three Full flow lube oil filter. All filters have replaceable elements. 	Radiator and cooling fan, complete with safety guards, designed to cool the engine at high ambient temperatures (consult your dealer for de-ration factors)	Heavy duty Industrial Exhaust Silencer	3 pole ACB / MCCB or Schneider (supplied disconnected and without cables)
			Silencer noise 10 (dB) reduction level 10 (dB) Maximum allowable 8.0 (kPa}	

Weight* kg (wet)

6360

wet weight = with lube oil and coolant

Height cm

211

IMG1000





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-ration 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 seperator
- Water jacket heater
- Battery charger

ACCESSORIES

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

GET IN TOUCH

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IMG1000

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 $\pm 0.5\%$. 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 AREP 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

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.

