



POWERED BY:



Generating Set pictured may include optional accessories

GENERATING SET MODEL (JP800)

Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	800 KVA	880 KVA
	640 KW	704 KW

Ratings at 0.8 Power Factor

ENGINE / TECHNICAL DATA

Engine Make	Perkins	
Engine Model	4006 - 23TAG3A	
Governing Type	Digital	
Number of Cylinders	6	
Cylinder Arrangement	Vertical in line	
Bore and Stroke	160 x 190	
Displacement / Cubic Capacity litres	22.921	
Induction System	Turbocharged and air to air charge cooled	
Cycle	4 stroke	
Combustion System	Direct Injection	
Compression Ratio	13.6:1	
Rotation	Anti-clockwise, viewed on flywheel	
Cooling System	Water - cooled	
Frequency and Engine Speed	50Hz & 1500rpm	
	Prime	Standby
Gross Engine Power kW (hp)	705 (945)	786 (1054)
Fuel Consumption @ 50% load L/hr	90	-
@ 75% load L/hr	130	-
@ 100% load L/hr	172	194
Total Lubrication System Capacity litres	113.4	113.4
Total Coolant Capacity litres	105	105
Boost Pressure Ratio	3.5	3.8
Exhaust Temperature °C	500	500
Radiator Cooling Air Flow (Min) m³/sec	20	20
Combustion Air Flow m³/min	69	73
Exhaust Gas Flow m³/min	193	193
Fuel Tank Capacity litres	N/A	N/A

DIMENSIONS AND WEIGHT

Length cm	Width cm	Height cm	Weight* kg (wet)
430	174	215	6370

* For skid mounted genset without enclosure

wet weight = with lube oil and coolant

STANDARD SPECIFICATIONS

- ENGINE**
Perkins four stroke heavy duty high performance industrial type diesel engine.
- ENGINE FILTRATION SYSTEM**
 - Two Cartridge type dry air filters.
 - Cartridge type fuel filter.
 - Three Full flow lube oil filters.
 All filters have replaceable elements.
- TROPICAL 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)
- EXHAUST SYSTEM**
Heavy duty Industrial Exhaust Silencer

Silencer noise reduction level	14 (dB)
Maximum allowable back pressure	7.0 (kPa)
- CIRCUIT BREAKER TYPE**
ABB 3 pole MCCB (4 pole is optional)

(contd.)

ALTERNATOR DATA

Make	Leroy Somer
Model	LSA49.1M75
No. of bearings	1
Insulation class	H
Total Harmonic Content	<4%
Wires	6
Ingress Protection	IP23
Excitation System	AREP
Winding Pitch	2/3 (n° 6S)
AVR Model	R450
Overspeed	2250 mn ¹
Voltage Regulation ^(steady)	± 0.5%
Short Circuit Capacity	300% (3 In):10s

PMG 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/O 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)

AN INSPIRED DESIGN TO MEET YOUR NEEDS



Generating Set pictured may include optional accessories

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.

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)

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.powerandco.net



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.