



GENERATING SET MOD	EL (JP500)					
Output Ratings		Prime	rime		Standby	
400-415 V, 3 ph, 50 Hz,			500 KVA		550 KVA	
· · ·	· · ·	400 KW		44	0 KW	
480 V, 3 ph, 60 Hz, 1800) rpm	569 KVA		62	4 KVA	
		455 KW	55 KW		500 KW	
Alternators ratings may change at diffe	rent voltages.			Ratin	gs at 0.8 Power Facto	
ENGINE / TECHNICAL D	DATA					
Engine Make			Per	kins		
Engine Model			2506A-E15TAG2			
Governing Class	5		ISO 8528-5 G3			
Number of Cylinders			6			
Cylinder Arrangement			Vertical		l in line	
Bore and Strokemm			137 x 171			
Displacement / Cubic (Capacitylitres		15.2			
Induction System		Turbo	Turbocharged and air to air charge cooled			
Cycle			4 stroke			
Combustion System			Direct Injection			
Compression Ratio			16:1			
Rotation		Ar	Anti-clockwise, viewed on flywheel			
Cooling System			Water - cooled			
Frequency and Engine	Speed	50Hz &	1500rpm	60Hz &	1800rpm	
		Prime	Standby	Prime	Standby	
Gross Engine PowerkW		451 (605)	495 (664)	458 (615)	514 (689)	
Fuel Consumption @ 5	50% loadL/hr	53	-	53	-	
@ 75	@ 75% load L/hr		-	78	-	
	@ 100% load L/hr		111	102	116	
Total Lubrication Syste		62	62	62	62	
Total Coolant Capacity	itres	58	58	58	58	
Boost Pressure Ratio		3.40	3.60	3.00	3.25	
•	Exhaust Temperature?C		550	n/a	550	
	Radiator Cooling Air Flow (Min)m ³ /sec		11	13.7	13.7	
Combustion Air Flowm ³ /min		35.8	36.6	34.3	38	
Exhaust Gas Flow:m ³ /min		94	98	96	105.3	
Fuel Tank Capacity:litres		655	655	655	655	
DIMENSIONS AND WEI	GHT					
Lengthcm	Widthcm	Heig	Heightcm Weight*kg (wet)		t*kg (wet)	
365	112	20	207.5 3797		797	



STANDARD SPECIFICATIONS

1. ENGINE

Perkins four stroke heavy duty high performance industrial typdiesel engine.

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

COOLING RADIATOR

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

4. EXHAUST SYSTEM

Heavy duty Industrial Exhaust Silencer

Silencer noise reduction level	15 (dB)
Maximum allowable back pressur	e 6.8 (kP

5. CIRCUIT BREAKER TYPE

3 pole ACB / MCCB (supplied disconnected and without cables)*

Make	Leroy Somer
Model	TAL 047C
No. of bearings	1
Insulation class	Н
Total Harmonic Content	<3.5% on load
Wires	6
Ingress Protection	IP23
Excitation System	SHUNT
Winding Pitch	2/3 (n° 6)
AVR Model	R150
Overspeed	2250 mñ ¹
Voltage Regulationsteady)	± 1%
Short Circuit Capacity	-

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 shutdownOptional
- Hours run counter
- Battery volts
- Fail to start/stop
- Emergency stop
- Failed to reach loading voltage/frequency
- Charge fail
- Loss of magnetic pick-up signaOptional
- Low DC voltage
- CAN diagnostics and CAN fail/error

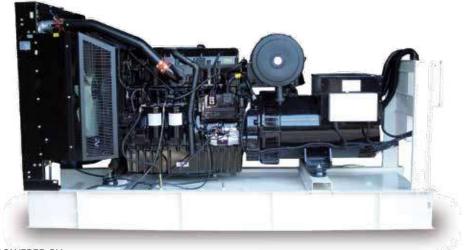
(Please refer to DSE6110 brochure for more details)

* For skid mounted genset without enclosure

wet weight = with lube oil and coolant

	(contd
ALTERNATOR DATA	
Make	Leroy Somer
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Insulation class	Н
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Wires	6
Ingress Protection	IP23
Excitation System	SHUNT
Winding Pitch	2/3 (n° 6)
AVR Model	R150
Overspeed	2250 mn ¹
Voltage Regulationsteady)	± 1%
Short Circuit Capacity	-





POWERED BY:



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

Distributed and Serviced by:

ACCESSORIES • Genuine spare parts

- Load banks
- Auxiliary fuel tanks



For further information on all of the standard and optional features accompanying this product please contact your local dealer or visit www.powerandco.net

Location: 04 Spintex Road opposite Melcom Plus Address: P.O. Box CT 10937 Cantonments-Accra. Tel: 0302 812 718 Hotline: 0242383838 / 054100022 Email: info@powerandco.net

Web: 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.



JP500

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 REGULATORVR)

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 secondshen 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. OUALITY 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.



