INTERNATIONAL MACHINERY & GENERATORS

Perkins 308KVA

ALTERNATOR DATA (Leroy Somer OR Stamford)

Leroy Somer TAL 046F 1 H

<%3.5 6 IP23 SHUNT 3/2 (n° 6)

GENERATING SET MODEL (JP9)		
Output Ratings	Prime	Standby
415-380 V, 3 ph, 50 Hz, 1500 rpm	308 KVA	337 KVA
	246.4 KW	269.6 KW

Ratings at 0.8 Power Factor

ENGINE / TECHNICAL DATA		
Engine Make	Per	rkins
Engine Model	1506A-	E88TAG5
Governing Type	Elec	tronic
Number of Cylinders		6
Cylinder Arrangement	Vertica	al in line
Bore and Stroke mm	112	x 149
Displacement / Cubic Capacity litres		3.8
Induction System	Turbocharge	d aftercooled
Cycle	4 s	troke
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 (hp)	281	307
Fuel Consumption @ 50% load L/hr	33	-
@ 75% load L/hr	48.2	-
@ 100% load L/hr	64.9	73.1
Total Lubrication System Capacity litres	41	41
Total Coolant Capacity (inc. radiator) litres	33.2	33.2
Exhaust Temperature: °C	3.3	3.6
Radiator Cooling Air Flow (Min): m ³ /sec	561	574
Combustion Air Flow: m ³ /min	6.16	6.16
Exhaust Gas Flow: m ³ /min	17.0	18.4
Fuel Tank Capacity: litres	45.1	50.0
Boost Pressure Ratio	500	500

DIMENSIONS AND W	/EIGHT		
Length cm	Width cm	Height cm	Weight* kg (wet)
313	106	178	2378
* For skid mounted genset w	ith enclosure		wet weight = with lube oil and coolant

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.	 Cartridge type dry air filter. Two Cartridge type fuel filter. 	Radiator and cooling fan, complete with safety guards, designed to cool the engine at	Heavy duty Industrial Exhaust Silencer	ABB 3 pole MCCB or Schneider (4 pole is optional)
	• Full flow lube oil filter. All filters have replaceable	high ambient temperatures (consult your dealer for	Silencer noise reduction level 13 (dB) Maximum allowable healt memory 10.0 (kPA)	(contd.)
	elements.	de-ration factors)	back pressure	(conta.)

	Model	
-	No. of bearings	
-	Insulation class	
	Total Harmonic Content	
	Wires	
	Ingress Protection	
	Excitation System	
-	Winding Pitch	
-		

Make

 AVR Model
 R150

 Overspeed
 2250 mn

 Voltage Regulation (steady)
 ± %1

 Short Circuit Capacity

 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
- Loss of magnetic pi
- Low DC voltage
- CAN diagnostics and CAN fail/error

(Please refer to DSE6110 brochure for more details)

IMG300





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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IMG300

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.



