



Generating Set pictured may include optional accessories

Serkins[®]

Diesel Powe

Output Ratings	Prime		Standby	
480 V, 3 ph, 60 Hz, 1800 rpm	114.0 KVA		127.0 KVA	
	91.2 KW		101.6 KW	
380 V, 3 ph, 60 Hz, 1800 rpm	109.0 KVA		120.0 KVA	
	87.2 KW		96.0 KW	
licable Voltages: 208-220/120-127 V at 60 Hz only (Consult your dealer	for more details)		Ratings at 0.8 Power Fact	
ENGINE / TECHNICAL DATA				
Engine Make		Perkins		
Engine Model		1104C-44TAG2		
Governing Type		Electronic		
Number of Cylinders		4		
Cylinder Arrangement		Vertical in line		
Bore and Stroke mm		105 x 127		
Displacement / Cubic Capacity litres		4.41		
Induction System		Turbocharged, air to air		
Cycle		4 stroke		
Combustion System		Direct Injection		
Compression Ratio		18.2:1		
Rotation	A	Anti-clockwise, viewed on flywheel		
Cooling System		Water - cooled		
Frequency and Engine Speed		60Hz & 1800rpm		
		Prime	Standby	
Gross Engine Power kW (hp)		106.8 (143.2)	117.5 (157.5)	
Fuel Consumption @ 50% load L/hr		14.1	-	
@ 75% load L/hr		20.2	-	
@ 100% load L/hr		26.9	29.7	
Total Lubrication System Capacity litres		8	8	
Total Coolant Capacity (inc. radiator) litres		12.6	12.6	
Exhaust Temperature: °C		517	574	
Radiator Cooling Air Flow (Min): m ³ /sec		3.76	3.76	
Combustion Air Flow: m ³ /min		7.75	7.80	
Exhaust Gas Flow: m³/min		18.4	20.4	
Fuel Tank Capacity: litres		109	109	

DIMENSIONS AND WEIGHT					
Length cm	Width cm	Height cm	Weight* kg (wet)		
225	73	134	1127		





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.
- 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-ration factors)

4. EXHAUST SYSTEM

Heavy duty Industrial Exhaust Silencer

Silencer noise reduction level 13 (dB) Maximum allowable back pressure (kPa) 15.0 @ 60 Hz

CIRCUIT BREAKER TYPE 5.

ABB 3 pole MCCB. (4 pole is optional)

ALTERNATOR DATA		
Make	Leroy Somer	
Model	LSA44.3S5	
No. of bearings	1	
Insulation class	Н	
Total Harmonic Content	<2%	
Wires	12	
Ingress Protection	IP23	
Excitation System	SHUNT	
Winding Pitch	2/3 (n° 6)	
AVR Model	R250	
Overspeed	2250 mn ⁻¹	
Voltage Regulation (steady)	± 0.5%	
Short Circuit Capacity	-	
AREP & PMG Excitation System Available as Option		

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

wet weight = with lube oil and coolant



AN INSPIRED DESIGN TO MEET YOUR NEEDS

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 plua.

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 ±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 or PMG option is fitted.

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.

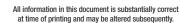
check warranty statement for more details, as it may vary for different countries

In line with continuous product development, we reserve the right to change specifications without notice

contact your local dealer or visit www.JubailiBros.com

JET Generators are assembled

in facilities certified to ISO 9001







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.

Generating Set pictured may include optional accessories

ACCESSORIES

Load banks

switches

JUBAILI BROS

· Genuine spare parts

· Auxiliary fuel tanks

Manual & automatic transfer

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.

For further information on all of the standard and optional features accompanying this product please

OPTIONS

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

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