





1. ENGINE

1

Perkins fourstrokeheavy dutyhigh performace industrial typediesel engine.

- 2. ENGINE FLTRATION SYSTEM
- Cartridge typerglair filter.
- Two Cartridge type fuel filters.
- Two Full flw lube oil filters.
- All filters have replaceable elements.

COOLING RADATOR

Radiator and cooling fan, complete with safety guards designed o cool the engineat high ambient temperatures (consult yup dealer for de-ation factor)s

4. EXHAUST SYSTEM

Hævy duty Industrial Exhaust Silencer

Silencer noise reduction level	12 (dB)
Maximum adwable back pressure	6 (kPa)

5. CIRCUIT BREAKER TYPE ABB 3 pole MCCB. (4 pole is optional)

(contd.)

ALTERNATOR DATA		
Make	Leroy Somer	
Model	TAL 044J	
No of bearings	1	
Insulationclass	Н	
Total Harmonic Content	at no load <3.5% - on load <5%	
Wires	б	
Ingress Protection	IP23	
Excitation System	SHUNT	
Winding Pitch	2/3 (n° 3)	
AVR Model	R120	
Overspeed	2250 mñ ¹	
Voltage Regulation(steady)	±1%	
Short Circuit Capacity	-	
PMG Excitation System Available as Optional		

PMG Excitation System Available as Optional

CONTROLPANEL	
Make	Deep Sea
Model	DSE6110

The DSE6110 is an AutoStart ControlModulefor singlegensetappliations It includes a backlitLCD display which clearly shows the status of the engine all the times This modul 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)
- Geneator currentr
- Engine oil pressure
- Engine coolant temperature
- Fuel level (Warning or shutdown) Optional Hours run counter
- Battery volts • Fail to start/stop
- Emergenay 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 MEETYOUR NEEDS

LEROY * SOMER	U
y include optional accessories	

POWERED BY:

89 Perkins 15 Diesel Pow

Generating Set pictured may

GENERATING SET MODEL (JP150)			
Output Ratings	Prime	Standby	
380-415V, 3 ph 50 Hz 1500 rpm	150 KVA	165 KVA	
	120 KW		
		Ratingsat 0.8 PowerFa	
ENGINE / TECHNICAL DATA			
Engine Make	Р	erkins	
Engine Model	1100	1106A-70TAG2	
GoverningType	M	Mechanical	
Number of Cylinders		6	
Cylinder Arrangement	Vert	Vertical in line	
Bore and Strokemm	10	105 x 135	
Displacement / Cubic Capacity litres		7.01	
Induction System	Turbochargeo	Turbochargedir to air aftercooled	
Cycle	4	4 stroke	
Combustion System	Dire	Direct Injection	
Compression Ratio		18.2:1	
Rotation	Anticlockwise	Anticlockwiseviewed on flywheel	
Cooling System	Wate	Water - cooled	
Frequency and Engine Speed		& 1500rpm	
	Prime	Standby	
Gross EnginePower kW (hp)	136 (182.3)	149.1 (200)	
Fuel Consumption@ 50% load L/hr	16.4	-	
@ 75% load L/hr	24.7	-	
@ 100% load L/hr	33.4	36.1	
Total Lubrication System Capacity litres	18	18	
Total Coolant Capacity (inc. radiator) litres	21	21	
Exhaust Temperature:°C	484	484	
Radiator Cooling Air Flow (Min)m ³ /sec	4.7	4.7	
Combustion Air Flowm ³ /min	10.2	10.67	
Exhaust Gas Flow: m³/min	23.78	25.53	
Fuel Tank Capacity: litres	270	270	

DIMENSIONS AND	WEIGHT		
Lengthcm	Widthcm	Heightcm	Weight*kg (wet)
250	80	155	1473

* For skid mounted genset withou**dles**ure

wet weight = with lube oil and coolant









Berkins Diesel Power

Generating Set pictured may include optional accessories

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.

StandbyPower

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 shutd
- Water fuel seperator
- Water jacket h**e**ter
- B attery charger

Distributed and Serviced by:

ACCESSORIES

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



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



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JET Generators are assembled in facilities certified to ISO 9001

All information in this document is substantially correct atime of printing and may be altered subsequently.t

1806/2017

AN INSPIRED DESIGN TO MEETYOUR 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 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 ±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 seconds, when 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. 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)