



GENERATING SET MODEL (KC1250)		
Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	1250 KVA	1375 KVA
	1000 KW	1100 KW

Ratings at 0.8 Power Factor

ENGINE / TECHNICAL DATA		
Engine Make	Perkins	
Engine Model	4012 - 46TWG2A	
Governing Type	Di	gital
Number of Cylinders		12
Cylinder Arrangement	60° V	ee form
Bore and Stroke mm	160 x 190	
Displacement / Cubic Capacity litres	45.842	
Induction System	Turbocharged and air to water charge cooled	
Cycle	4 stroke	
Combustion System	Direct Injection	
Compression Ratio	13.6:1	
Rotation	Anti-clockwise, viewed from flywheel end	
Cooling System	Water - cooled	
Frequency and Engine Speed	50Hz & 1	500rpm
	50Hz & 1 Prime	500rpm Standby
Gross Engine Power kW (hp)		-
	Prime	Standby
Gross Engine Power kW (hp)	Prime 1113 (1492)	Standby
Gross Engine Power kW (hp) Fuel Consumption @ 50% load L/hr	Prime 1113 (1492) 143	Standby
Gross Engine Power kW (hp) Fuel Consumption @ 50% load L/hr @ 75% load L/hr	Prime 1113 (1492) 143 196	Standby 1224 (1641)
Gross Engine Power kW (hp) Fuel Consumption @ 50% load L/hr @ 75% load L/hr @ 100% load L/hr	Prime 1113 (1492) 143 196 259	Standby 1224 (1641) - - 288
Gross Engine Power kW (hp) Fuel Consumption @ 50% load L/hr @ 75% load L/hr @ 100% load L/hr Total Lubrication System Capacity litres	Prime 1113 (1492) 143 196 259 177	Standby 1224 (1641) 288 177
Gross Engine Power kW (hp) Fuel Consumption @ 50% load L/hr @ 75% load L/hr @ 100% load L/hr Total Lubrication System Capacity litres Total Coolant Capacity litres Boost Pressure Ratio Exhaust Temperature: °C	Prime 1113 (1492) 143 196 259 177 201	Standby 1224 (1641) 288 177 201
Gross Engine Power kW (hp) Fuel Consumption @ 50% load L/hr @ 75% load L/hr @ 100% load L/hr Total Lubrication System Capacity litres Total Coolant Capacity litres Boost Pressure Ratio Exhaust Temperature: °C Radiator Cooling Air Flow (Min): m³/sec	Prime 1113 (1492) 143 196 259 177 201 2.87	Standby 1224 (1641) 288 177 201 3.10
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DIMENSIONS AND V	VEIGHT		
Length cm	Width cm	Height cm	Weight* kg (wet)
500	180	250	9250

^{*} For skid mounted genset with enclosure

wet weight = with lube oil and coolant

ALTERNATOR DATA (Leroy Somer OR Stamford)			
Make	Leroy Somer		
Model	LSA50.2M6		
No. of bearings	1		
Insulation class	Н		
Total Harmonic Content	<3.5%		
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 ln):10s		
PMG Excitation System Available as Ontional			

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)

STANDARD SPECIFICATIONS

1. ENGINE

Perkins four stroke heavy duty high performance diesel engine industrial type.

2. ENGINE FILTRATION SYSTEM

- Two Cartridge type dry air filters
- Cartridge type fuel filter.
- Six Full flow lube oil filters. 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	10 (dB)
Maximum allowable back pressure	5.0 (kPa}

5. CIRCUIT BREAKER TYPE

ABB 3 pole ACB (supplied disconnected and without or Schneider (4 pole is optional)

(contd.)



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

Phone Number:

+ 961 (3) 059 995



+961 (1) 311 737

Email Address :

support@img-lb.com houssam@img-lb.com

Address Location :

IMG Bldg. Mazraa Area - Beirut - Lebanon P.O Box: 14-5311 Beirut - Lebanon



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. AI TERNATOR

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.



