

# KC1250

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 DATAEngine MakePerkinsEngine Model4012 - 46TWG2AGoverning TypeDigitalNumber of Cylinders12Cylinder Arrangement60° Vee formBore and Stroke mm160 x 190Displacement / Cubic Capacity litres45.842Induction SystemTurbocharged and air to water charge cooled
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Induction System Turbocharged and air to water charge cool
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 & 1500rpm
Prime Standby
Gross Engine Power kW (hp) 1113 (1492) 1224 (1641)
Fuel Consumption @ 50% load L/hr 143 -
@ 75% load L/hr 196 -
@ 100% load L/hr 259 288
Total Lubrication System Capacity litres         177         177
Total Coolant Capacity litres 201 201
Boost Pressure Ratio 2.87 3.10
Exhaust Temperature: °C 422 422
Radiator Cooling Air Flow (Min): m³/sec2828
Combustion Air Flow:m³/min103109
Exhaust Gas Flow: m³/min         235         235
Fuel Tank Capacity: litres N/A N/A

ALTERNATOR DATA (Leroy Somer OR Stanford)				
Make	Leroy Somer			
Model	LSA50.2M6			
No. of bearings	1			
Insulation class	Н			
<b>Total Harmonic Content</b>	<3.5%			
Wires	6			
Ingress Protection	IP23			
Excitation System	AREP			
Winding Pitch	2/3 (n° 6S)			
AVR Model	R450			
Overspeed	2250 mn <sup>-1</sup>			
Voltage Regulation (steady)	± 0.5%			
Short Circuit Capacity	300% (3 ln):10s			
PMG Excitation System Available as Optional.				

CONTROL PANEL	
Make	Deep Sea
Model	DSE7320
Model	DSE/320

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)

DIMENSIONS AND WEIGHT				
Length cm	Width cm	Height cm	Weight* kg (wet)	
500	180	250	9250	
* 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.	<ul> <li>Two Cartridge type dry air filters.</li> <li>Cartridge type fuel filter.</li> </ul>	ers.complete with safety guards, designed to cool the engine at high ambient temperatures (consult your dealer for	Heavy duty Industrial Exhaust Silencer	ABB 3 pole ACB (supplied disconnected and without or Schneider (4 pole is optional)
			Silencer noise         10 (dB)           reduction level         10 (dB)           Maximum allowable         5.0 (kPa)	

# **KC1250**





# **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 :

+965 97763407

### 🖻 Email Address :

support@kontrolc.com

### O Address Location :

2nd floor Dar Al Awadi Ahmed Jaber Street Sharq, Kuwait

### **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.

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