

KC2000

GENERATING SET MODEL (KC2000)			
Output Ratings	Prime	Standby	
380-415 V, 3 ph, 50 Hz, 1500 rpm	2000 KVA	2250 KVA	
	1600 KW	1800 KW	

ENGINE / TECHNICAL DATA		
Engine Make	Pe	rkins
Engine Model	4016TAG2A	
Governing Type	Elec	ctronic
Number of Cylinders		16
Cylinder Arrangement	60° Vee	
Bore and Stroke mm	160	x 190
Displacement / Cubic Capacity litres	61	.123
Induction System	Turbocharged	
Cycle	4 stroke, compression ignition	
Combustion System	Direct Injection	
Compression Ratio	13.6:1 nominal	
Rotation	Anti-clockwise, viewed on flywheel end	
Cooling System	Water	
Frequency and Engine Speed	50Hz & 1500rpm	
	Prime	Standby
Gross Engine Power kWb	1766	1937
Fuel Consumption @ 50% load L/hr	210	-
@ 75% load L/hr	316	-
@ 100% load L/hr	434 483	
Total Lubrication System Capacity litres	214	214
Total Coolant Capacity litres	316	316
Boost Pressure Ratio	3.49	3.80
Exhaust Temperature: °C	493	493
Radiator Cooling Air Flow (Min): m ³ /sec	40.5	40.5
Combustion Air Flow: m ³ /min	137	145
Exhaust Gas Flow: m ³ /min	387	387

ALTERNATOR DATA (Leroy S	Comor OD Ctonford)	
Make	Leroy Somer	
	,	
Model	LSA51.2M60	
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):		
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)

DIMENSIONS AND W	/EIGHT		
Length cm	Width cm	Height cm	Weight* kg (wet)
587	290	355	12700
* 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.	 Two Cartridge type dry air filters. Cartridge type fuel filter. 	Radiator and cooling fan, complete with safety guards, designed to cool the engine at high ambient temperatures	Heavy duty Industrial Exhaust Silencer	ABB 3 pole ACB (supplied disconnected and without or Schneider (4 pole is
Six Full flow lube oil filters. All filters have replaceable elements.	high ambient temperatures (consult your dealer for de-ration factors)	Silencer noise reduction level Maximum allowable back pressure 6.6 (kPa)	optional)	







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.

KC2000



LEROY* SOMER