

# DIESEL GENERATOR SET



## DE9.5E3

EU stage IIIA emissions compliant.  
Suitable for Mobile Applications in the European Community.

Image shown may not reflect actual package

<b>Output Ratings</b>		
<b>Generator Set Model - 3 Phase</b>	<b>Prime*</b>	<b>Standby*</b>
400/230 V, 50 Hz	8.5 kVA 6.8 kW	9.5 kVA 7.6 kW
220/127V, 60 Hz	10.0 kVA 8.0 kW	11.0 kVA 8.8 kW

\* Refer to ratings definitions on page 4.  
Ratings at 0.8 power factor.

<b>Technical Data</b>		
<b>Engine Make &amp; Model:</b>	Cat® C1.1	
<b>Generator Model:</b>	LC1114B	
<b>Control Panel:</b>	EMCP 4.1	
<b>Base Frame Type:</b>	Heavy Duty Fabricated Steel	
<b>Circuit Breaker Type:</b>	3 Pole MCB	
<b>Frequency:</b>	<b>50 Hz</b>	<b>60 Hz</b>
<b>Engine Speed: RPM</b>	1500	1800
<b>Fuel Tank Capacity: litres (US gal)</b>	62 (16.4)	
<b>Fuel Consumption, Prime: l/hr (US gal/hr)</b>	2.6 (0.7)	3.0 (0.8)
<b>Fuel Consumption, Standby : l/hr (US gal/hr)</b>	2.9 (0.8)	3.4 (0.9)



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## Generator Performance Data

Data Item	50 Hz				60 Hz				
	415/240V	400/230V	380/220V						220/127V
Motor Starting Capability* kVA	20	19	18	-	-	-	-	-	20
Short Circuit Capacity %	-	-	-	-	-	-	-	-	-
Reactances: Per Unit									
Xd	1.650	1.777	1.968	-	-	-	-	-	2.073
X'd	0.193	0.207	0.230	-	-	-	-	-	0.242
X''d	0.096	0.104	0.115	-	-	-	-	-	0.121

Reactances shown are applicable to prime ratings.  
\*Based on 30% voltage dip at 0.6 power factor.

## Generator Technical Data

Physical Data	
LC SERIES	
Model:	LC1114B
No. of Bearings:	1
Insulation Class:	H
Winding Pitch - Code:	2/3 - 6
Wires:	12
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	R220

Operating Data	
Overspeed: RPM	2250
Voltage Regulation: (steady state)	+/- 1.0%
Wave Form NEMA = TIF:	50
Wave Form IEC = THF:	2.0%
Total Harmonic Content LL/LN:	4.0%
Radio Interference:	Suppression is in line with European Standard EN61000-6
Radiant Heat: kW (Btu/min)	
-50 Hz:	1.7 (97)
-60 Hz:	1.8 (102)

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## Technical Data

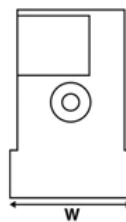
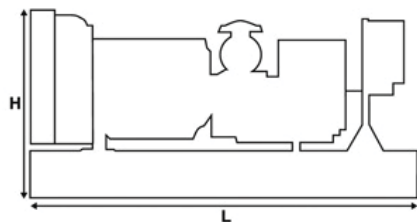
Voltage 50 Hz	Prime		Standby	
	kVA	kW	kVA	kW
415/240V	8.5	6.8	9.5	7.6
400/230V	8.5	6.8	9.5	7.6
380/220V	8.5	6.8	9.5	7.6

Voltage 60 Hz	Prime		Standby	
	kVA	kW	kVA	kW
220/127V	10.0	8.0	11.0	8.8

## Weights & Dimensions

Weights: kg (lb)	
Net (+ lube oil)	296 (653)
Wet (+ lube oil & coolant)	301 (664)
Fuel, lube oil & coolant	354 (779)

Dimensions: mm (in)	
Length	1400 (55.1)
Width	620 (24.4)
Height	996 (39.2)



**Note:** General configuration not to be used for installation. See general dimension drawings for detail.

## Definitions

### Standby Rating

Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

### Prime Rating

Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated kW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year.

### Standard Reference Conditions

Note: Standard reference conditions 25°C (77°F) air inlet temp, 100m (328ft) A.S.L. 30% relative humidity. Fuel consumption data at full load with diesel fuel with specific gravity of 0.85 and conforming to BS2869: 1998, Class A2.

## General Data

### Documents

A full set of operation and maintenance manuals and circuit wiring diagrams.

### Quality Standards

The equipment meets the following standards: **IEC60034-1, IEC60034-22, ISO3046, ISO8528, NEMA MG 1-32, NEMA MG 1-33, 2004/108/EC, 2006/42/EC, 2006/95/EC.**