



DE7.5E3S

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

Image shown may not reflect actual package

Output Ratings				
Generator Set Model - 1 Phase	Prime *	Standby*		
230V, 50Hz	6.8 kVA 6.8 kW	7.5 kVA 7.5 kW		
240/120V, 60 Hz	8.0 kVA 8.0 kW	8.8 kVA 8.8 kW		

* Refer to ratings definitions on page 4. Ratings at 1.0 power factor.

Technical Data				
Engine Make & Model:	Cat [®] C1.1	Cat [®] C1.1		
Generator Model:	LCB1114D	LCB1114D		
Control Panel:	EMCP 4.1	EMCP 4.1		
Base Frame Type:	Heavy Duty Fabricated Steel	Heavy Duty Fabricated Steel		
Circuit Breaker Type:	3 Pole MCB	3 Pole MCB		
Frequency:	50 Hz	60 Hz		
Engine Speed: RPM	1500	1800		
Fuel Tank Capacity: litres (US gal)	62 (62 (16.4)		
Fuel Consumption, Prime: I/hr (US gal/hr)	2.5 (0.7)	2.9 (0.8)		
Fuel Consumption, Standby : I/hr (US gal/hr)	2.8 (0.7)	2.8 (0.7) 3.3 (0.9)		



Engine Technical Data

Physical Data	
Manufacturer:	Caterpillar
Model:	C1.1
No. of Cylinders/Alignment:	3 / In Line
Cycle:	4 Stroke
Induction:	Naturally Aspirated
Cooling Method:	Water
Governing Type:	Mechanical
Governing Class:	ISO 8528
Compression Ratio:	23:1
Displacement: I (cu.in)	1.1 (69.0)
Bore/Stroke: mm (in)	77.0 (3.0)/81.0 (3.2)
Moment of Inertia: kg m ² (lb. in ²) 1.63 (5570)
Engine Electrical System:	
-Voltage/Ground:	12/Negative
-Battery Charger Amps:	40
Weight: kg (lb) - Dry:	129 (284)
- Wet:	139 (306)
Air System	50 Hz 60 Hz
Air Filter Type:	Replaceable Element
Combustion Air Flow:	
m³/min (cfm) -Standby:	0.7 (25) 0.9 (32)
-Prime:	0.7 (25) 0.9 (32)
Max. Combustion Air Intake	
Restriction: kPa (in H ₂ O)	6.4 (25.7) 6.4 (25.7)
Radiator Cooling Air Flow:	
m³/min (cfm)	24.0 (848) 32.7 (1155)
External Restriction to	
Cooling Air Flow: Pa (in H ₂ O)	125 (0.5) 125 (0.5)
Cooling System	50 Hz 60 Hz
Cooling System Capacity: I (US gal)	5.2 (1.4) 5.2 (1.4)
Water Pump Type:	Centrifugal
Heat Rejected to Water &	Centinugai
Lube Oil: kW (Btu/min)	
-Standby:	9.5 (540) 12.0 (682)
-Prime:	8.3 (472) 10.0 (569)
Heat Radiation to Room: Heat radia	ated from engine and alternator
kW (Btu/min) -Standby:	4.2 (239) 5.1 (290)
-Prime:	3.2 (182) 4.4 (250)
Radiator Fan Load: kW (hp)	0.2 (0.3) 0.4 (0.5)
Cooling system designed to operate (122°F). Contact your local Cat deal conditions.	

Lubrica	ation Syste	m			
Oil Filter	Type:		Spin-O	n, Full Flow	
Total Oi	I Capacity I (U	S gal):	4.	9 (1.3)	
Oil Pan I	(US gal):		4.	4 (1.2)	
Oil Type	:		API CH4 15W-40		
Cooling	Method:			N/A	
_					
Perform	nance		50 Hz	60 Hz	
Engine S	Speed: RPM		1500	1800	
Gross Er	ngine Power: k	cW (hp)			
	-Sta	ndby:	9.5 (13.0)	11.8 (16.0)	
	-F	Prime:	8.6 (12.0)	10.7 (14.0)	
BMEP: k	Pa (psi)				
	•	ndby:	672.0 (97.4)	695.0 (100.8)	
			610.0 (88.5)	630.0 (91.4)	
Regener	ative Power: k		3.5	3.9	
		-	0.0		
Fuel S	ystem				
Fuel Filte	er Type:	Replaceal	ble Element		
Recomm	nended Fuel:		Diesel or BSEN	590	
Fuel Cor	nsumption: I/h	r (US gal/h	r)		
	110%	100%	75%	50%	
	Load	Load	Load	Load	
Prime					
50 Hz	2.8 (0.7)	2.5 (0.7	7) 1.9 (0.5)	1.5 (0.4)	
60 Hz	3.3 (0.9)	2.9 (0.8			
Standby					
50 Hz		2.8 (0.7	7) 2.1 (0.6)	1.6 (0.4)	
60 Hz		3.3 (0.9	, ,		
(based or	diesel fuel with	-	gravity of 0.85 and	- ()	
	Class A2)		jiavity of 0.00 all	a comorning to	
Exhaus	st System		50 Hz	60 Hz	
Silencer	Туре:		Inc	lustrial	
Silencer	Model & Qua	ntity:	EXSY1 (1)		
Pressure	Drop Across				
Silence	er System: kPa	a (in Hg)	0.43 (0.12	7) 0.80 (0.236)	
	Noise Reduct		•		
Level:	dB		20.5	10	
	owable Back		20.0		
	re: kPa (in. Hg	1)	10 2 /2 0	10 2 /2 0	
	Gas Flow:	17	10.2 (3.0)	10.2 (3.0)	
	in (cfm)	Standby	1 9 (64)	2 / (95)	
111-/101				2.4 (85)	
Exhaust	Gas Tompora	-Prime:	, (00)	2.2 (78)	

Exhaust Gas Temperature: °C (°F)

-Standby:

-Prime:

420 (788) 515 (959)

437 (819)

368 (694)



Generator Performance Data

		50	Hz		60 Hz			
Data Item	240V	230V	220V		220V/110V	240V/120V		
Motor Starting Capability* kVA	18	17	16		14	16		
Short Circuit Capacity %	-	-	-		-	-		
Reactances: Per Unit								
Xd	1.150	1.250	1.360		1.920	1.620		
X'd	0.210	0.230	0.250		0.360	0.300		
X''d	0.106	0.116	0.126		0.179	0.150		

Reactances shown are applicable to prime ratings. *Based on 30% voltage dip at 0.9 power factor.

Generator Technical Data

Physical Data	
LC Series	
Model:	LCB1114D
No. of Bearings:	1
Insulation Class:	Н
Winding Pitch - Code:	2/3 - M
Wires:	4
Ingress Protection Rating:	IP23
Excitation System:	SHUNT
AVR Model:	R220/R221

Operating Data			
Overspeed: RPM	Overspeed: RPM		
Voltage Regulation:	(steady state)	+/- 2.0%	
Wave Form NEMA =	TIF:	100	
Wave Form IEC = THF:		3.0%	
Total Harmonic Content LL/LN:		5.0%	
Radio Interference:	Radio Interference: Suppression is i Standard EN61		
Radiant Heat: kW (Btu/min)			
-50 Hz:		1.7 (97)	
-60 Hz:		2.0 (114)	



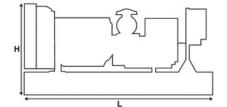
Technical Data

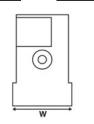
Voltage 50 Hz	Prime				lby
	kVA	kW	kVA	kW	
240V	6.8	6.8	7.5	7.5	
230V	6.8	6.8	7.5	7.5	
220V	6.8	6.8	7.5	7.5	

Voltage 60 Hz	Prime		Standby		
	kVA	kW	kVA	kW	
220V/110V	8.0	8.0	8.8	8.8	
240V/120V	8.0	8.0	8.8	8.8	

Weights & Dimensions

Weights: kg (lb)		Dimensions: mm (in)
Net (+ lube oil)	303 (668)	Length
Wet (+ lube oil & coolant)	308 (679)	Width
Fuel, lube oil & coolant	361 (795)	Height





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

1400 (55.1)

620 (24.4)

996 (39.2)

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.

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.

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.

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 ekW with 10% overload capability

for emergency use for a maximum of 1 hour in 12. Overload opeation cannot exceed 25 hours per year.

www.Cat-ElectricPower.com



Price List: C1C2PGAI,C1C2PGAT Gen. Arr. Number: 457-1401

Source: China, Europe

Definitions

Prime Rating

Standby Rating

LEHE0680-01 (04/16)

Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, "Caterpillar Yellow," the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.