



DE14E3S

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	13.0 kVA 13.0 kW	14.0 kVA 14.0 kW			
240/120V, 60 Hz	15.5 kVA 15.5 kW	17.0 kVA 17.0 kW			

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

Technical Data					
Engine Make & Model:	Cat [®] C2.2	Cat® C2.2			
Generator Model:	LCB1114L				
Control Panel:	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)	66	66 (17.4)			
Fuel Consumption, Prime: I/hr (US gal/hr)	4.3 (1.1)	4.3 (1.1) 5.2 (1.4)			
Fuel Consumption, Standby : I/hr (US gal/hr)	4.6 (1.2)	4.6 (1.2) 5.6 (1.5)			



Engine Technical Data

Physical Data			
Manufacturer:		Cate	erpillar
Model:		С	2.2
No. of Cylinders/Alig	No. of Cylinders/Alignment:		n Line
Cycle:		4 S	troke
Induction:		Naturally	Aspirated
		, in the test of test	, lopinatoa
Cooling Method:		W	ater
Governing Type:		Mech	anical
Governing Class:		ISO	8528
Compression Ratio:		23	.3:1
Displacement: I (cu.i	n)	2.2 (135.2)
Bore/Stroke: mm (in)	1	84.0 (3.3))/100.0 (3.9)
Moment of Inertia: k	g m² (lb. in²)	2.72	(9308)
Engine Electrical Sys	tem:		
-Voltage/Gro	ound:	12/N	egative
-Battery Charger A	mps:	6	65
Weight: kg (lb) - Dry	:	242	(534)
- Wet	t:	251	(554)
Air System		50 Hz	60 Hz
Air Filter Type:		placeable Elem	ent
Combustion Air Flow			. = (64)
m³/min (cfm)	-Standby: -Prime:	1.5 (51)	1.7 (61)
Max. Combustion Air		1.5 (51)	1.7 (61)
Restriction: kPa (in		20(120)	20(120)
Radiator Cooling Air	2	3.0 (12.0)	3.0 (12.0)
m ³ /min (cfm)	FIGW.	33.0 (1165)	41.4 (1462)
External Restriction t	0	33.0 (1103)	41.4 (1402)
Cooling Air Flow: P		125 (0.5)	125 (0.5)
	a (120 (0.0,	120 (0.0)
Cooling System		50 Hz	60 Hz
Cooling System Cap	acity:		
I (US gal)	-	6.5 (1.7)	6.5 (1.7)
Water Pump Type:		Cent	trifugal
Heat Rejected to Wa	nter &		-
Lube Oil: kW (Btu/	min)		
	-Standby:	15.2 (864)	17.2 (978)
	-Prime:	13.7 (779)	15.5 (881)
Heat Radiation to Ro	om: Heat radiate	ed from engine and a	lternator
kW (Btu/min)	-Standby:	5.3 (301)	6.1 (347)
	-Prime:	4.5 (256)	5.2 (296)
Radiator Fan Load: kW (hp)		0.2 (0.3)	0.4 (0.5)
Cooling system designed to operate in ambient conditions up to 50°C (122°F). Contact your local Cat dealer for power ratings at specific site conditions.			

Lubrica	ation Syste	m				
Oil Filter	Type:		Spin-On,	Full Flow		
Total Oil Capacity I (US gal):		S gal):	-	6 (2.8)		
	(US gal):	Ū.		(2.4)		
Oil Type				15W-40		
	Method:			I/A		
Perfor	nance		50 Hz	60 Hz		
Engine S	Speed: RPM		1500	1800		
U U	ngine Power: I	(w (hp)	1000	1000		
	0		8.0 (24.0)	21.5 (29.0)		
	-F			19.4 (26.0)		
BMEP: k			(22.0)			
DINEL	•	ndby: 64	49.0 (94.2)	647.0 (93.8)		
			35.0 (84.8)	583.0 (84.6)		
Regener	ative Power: k		5.6	7.2		
Fuel System						
		Replaceabl	e Element iesel or BSEN59	20		
	nended Fuel:		lesel or BSEN5	90		
Fuel Consumption: I/hr (US gal/hr)						
	110% Load	100% Load	75% Load	50% Load		
Prime						
50 Hz						
50 Hz 60 Hz	4.6 (1.2)	4.3 (1.1)	3.3 (0.9)	2.6 (0.7)		
00 HZ	5.6 (1.5)	5.2 (1.4)	4.1 (1.1)	3.1 (0.8)		
Standby						
50 Hz		4 6 (1 0)				
60 Hz		4.6 (1.2)	3.5 (0.9)	2.7 (0.7)		
		5.6 (1.5)	4.4 (1.2)	3.3 (0.9)		
	n diesel fuel with Class A2)	n a specific gra	avity of 0.85 and	conforming to		
Exhaus	st System		50 Hz	60 Hz		
Silencer	Type:	Indu	strial			
Silencer	Model & Qua	ntity:	EXS	(1 (1)		
	Drop Across					
Silence	er System: kPa	a (in Hg)	0.58 (0.171)	1.47 (0.434)		
	Noise Reduct	-		· · /		
Level:	dB		18.7	11.5		
	owable Back		-	-		

Level: dB		18.7	11.5		
Max. Allowable Ba	ck				
Pressure: kPa (in.	Hg)	10.2 (3.0)	10.2 (3.0)		
Exhaust Gas Flow:					
m³/min (cfm)	-Standby:	3.2 (114)	4.3 (151)		
	-Prime:	3.0 (105)	3.9 (138)		
Exhaust Gas Temperature: °C (°F)					
	-Standby:	413 (776)	459 (858)		
	-Prime:	364 (687)	396 (745)		

conditions.



Generator Performance Data

		50	Hz			60 Hz	
Data Item	240V	230V	220V		220V/110V	240V/120V	
Motor Starting Capability* kVA	34	32	31		27	30	
Short Circuit Capacity %	-	-	-		-	-	
Reactances: Per Unit							
Xd	1.470	1.600	1.750		2.500	2.100	
X'd	0.230	0.250	0.270		0.380	0.320	
X''d	0.113	0.123	0.134		0.192	0.161	

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:	LCB1114L
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	2250		
Voltage Regulation: (stea	dy state) +/- 1.0%		
Wave Form NEMA = TIF	100		
Wave Form IEC = THF:	3.0%		
Total Harmonic Content I	L/LN: 5.0%		
Radio Interference:Suppression is in line with European Standard EN61000-6			
Radiant Heat: kW (Btu/min)			
-50 Hz:	2.2 (125)		
-60 Hz:	2.9 (165)		



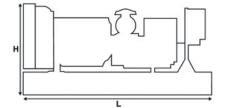
Technical Data

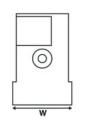
Voltage 50 Hz	Prime		Voltage 50 Hz Prime		ge Prime Standby		lby
	kVA	kW	kVA	kW			
240V	13.0	13.0	14.0	14.0			
230V	13.0	13.0	14.0	14.0			
220V	13.0	13.0	14.0	14.0			

Voltage 60 Hz	Prime		Stan	dby
	kVA	kW	kVA	kW
220V/110V	14.5	14.5	16.0	16.0
240V/120V	15.5	15.5	17.0	17.0

Weights & Dimensions

Weights: kg (lb)		Dimensions: mm (in)
Net (+ lube oil)	439 (968)	Length
Wet (+ lube oil & coolant)	446 (983)	Width
Fuel, lube oil & coolant	502 (1107)	Height





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

1500 (59.1) 620 (24.4)

1115 (43.9)

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 $25\,^{\circ}$ C (77 $^{\circ}$ 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 operation cannot exceed 25 hours per year.

www.Cat-ElectricPower.com



Price List: C1C2PGAI, C1C2PGAT Gen. Arr. Number: 457-1404

Source: Europe, China

LEHE0684-01 (04/16)

Definitions

Prime Rating

Standby Rating

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