# Cat® C4.4 Diesel Generator Sets



# Standby & Prime: 50 Hz & 60 Hz



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Engine Model	Cat® C4.4 Inline 4-stroke Diesel
Bore x Stroke	105.0 mm x 127.0 mm (4.1 in x 5.0 in)
Displacement	4.4 L (268.5 in³)
Compression Ratio	17.25:1
Aspiration	Turbocharged
Fuel Injection System	Inline
Governor	Mechanical

Image shown might not reflect actual configuration.

Model	Star	ıdby	Pri	me	Emission Strategy
DEGGEO	50 Hz	60 Hz	50 Hz	60 Hz	Low DOCO
DE88E0	88.0 kVA (70.4 kW)	100.0 kVA (80.0 kW)	80.0 kVA (64.0 kW)	90.0 kVA (72.0 kW)	Low BSFC

## **PACKAGE PERFORMANCE**

Performance	Sta	ndby	Prime						
Frequency	50 Hz	60 Hz	50 Hz	60 Hz					
Genset Power Rating	88.0 kVA	100.0 kVA	80.0 kVA	90.0 kVA					
Genset power rating with fan @ 0.8 power factor	70.4 kW	80.0 kW	64.0 kW	72.0 kW					
Emissions		Low BSFC							
Performance Number	P2516B	P2516A	P2516B	P2516A					
Fuel Consumption									
Fuel Tank Capacity, litres (US gal)		219 (	57.9)						
100% load with fan, L/hr (gal/hr)	19.8 (5.2)	23.3 (6.2)	18.0 (4.8)	21.0 (5.5)					
75% load with fan, L/hr (gal/hr)	14.9 (3.9)	17.7 (4.7)	13.6 (3.6)	16.1 (4.3)					
50% load with fan, L/hr (gal/hr)	10.3 (2.7)	12.5 (3.3)	9.5 (2.5)	11.6 (3.1)					
Cooling System <sup>1</sup>									
Radiator air flow, m³/min (CFM)	121.2 (4280)	140.4 (4958)	121.2 (4280)	140.4 (4958)					
Total coolant capacity, L (gal)		13.0 (3.4)							
Inlet Air									
Max. Combustion Air Intake Restriction, kPa (in water)		8.0 (	32.1)						
Combustion air inlet flow rate, m³/min (CFM)	5.1 (180)	6.5 (230)	4.8 (170)	6.2 (219)					
Max. Allowable Combustion Air Inlet Temp, °C (°F)		50 (	122)						
Exhaust System									
Exhaust stack gas temperature, °C (°F)	580 (1076)	560 (1040)	555 (1031)	535 (995)					
Exhaust gas flow rate, m³/min (CFM)	13.3 (470)	15.9 (560)	12.5 (441)	15.0 (530)					
Exhaust system backpressure (maximum allowable), kPa (in water)	10.0 (41)	15.0 (60.2)	10.0 (41)	15.0 (60.2)					
Heat Rejection									
Heat rejection to jacket water, kW (BTU/min)	51.0 (2900)	57.0 (3242)	46.0 (2616)	53.0 (3014)					
Heat rejection to alternator, kW (BTU/min)	6.7 (381)	7.1 (404)	6.7 (381)	7.1 (404)					
Heat rejection to atmosphere from engine, kW (BTU/min)	20.7 (1177)	22.1 (1257)	18.9 (1075)	20.1 (1143)					

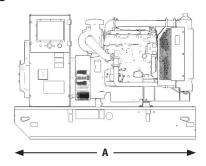
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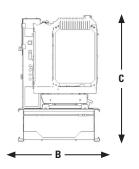


Alternator <sup>2</sup> 50												
Duty Cycle Standby							Prime					
Phase		3-Phase 3-Phase										
Voltages, V		200/115 220/127 380/220 400/230 415/240 200/115 220/1					220/127	380/220	400/230	415/240		
Current, Amps	254	231	134	127	122	231	210	122	116	111		
Frame: LC3114D	Temperature Rise, @ 40°C	163	163	163	163	163	125	125	125	125	125	
Excitation SE	Motor Starting Capability 30% Voltage Dip, skVA	184	217	168	184	196	184	217	168	184	196	

Alternator <sup>2</sup>		60 Hz															
Duty Cycle	Duty Cycle Standby							Prime									
Phase	Phase 3-Phase							3-Phase									
Voltages, V	oltages, V 208/120 220/127 220/110 240/139 240/120 380/220 440/254 480/27					480/277	208/120	220/127	220/110	240/139	240/120	380/220	440/254	480/277			
Current, Am	ps	277.6	262.4	262.4	240.6	240.6	151.9	131.2	120.3	249.8	236.2	236.2	216.5	216.5	136.7	118.1	108.3
Frame: LC3114D	Temperature Rise, @ 40°C	105	105	130	105	105	130	105	105	105	80	105	80	105	105	80	80
Excitation: SE	Motor Starting Capability @ 30% Voltage Dip, skVA	168	185	144	215	168	143	185	215	168	185	144	215	168	143	185	215

#### **WEIGHTS & DIMENSIONS**





Dim "A"	Dim "B"	Dim "C"	Dry Weight				
mm (in)	mm (in)	mm (in)	kg (lb)				
1925 (75.8)	1120 (44.1)	1361 (53.6)					

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

### **APPLICABLE CODES AND STANDARDS:**

AS1359, IEC60034-1, ISO 3046, ISO 8528, NEMA MG1-33, EAC, CE, UKCA.

**Note:** Codes may not be available in all model configurations. Please consult your Cat dealer for availability.

**STANDBY:** 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:** 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.

**RATINGS:** Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO 3046 standard conditions.

## **DEFINITIONS AND CONDITIONS**

- <sup>1</sup> For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to existing restriction from factory.
- $^{\rm 2}$  Generator temperature rise is based on a 40°C ambient per IEC60034-1.

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