

## Standby & Prime: 60Hz



Image shown might not reflect actual configuration

Engine Model	Cat® C18 ATAAC™ In-line 6, 4-cycle diesel
Bore x Stroke	145mm x 183mm (5.7in x 7.2in)
Displacement	18.13 L (1106.3 in³)
Compression Ratio	14
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	Electronic Unit Injection
Governor	Electronic ADEM™ A4

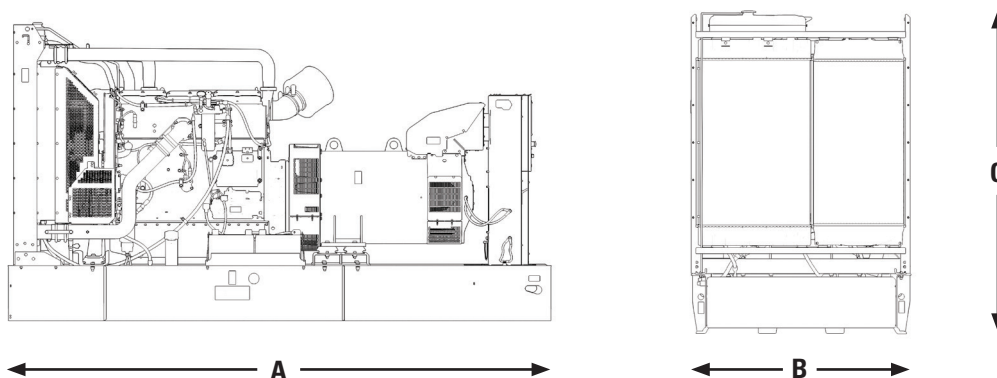
Model	Standby	Prime	Emission Strategy
DE715SE0	716 ekW	650 ekW	Low BSFC

## PACKAGE PERFORMANCE

Performance	Standby	Prime
Frequency	60 Hz	
Genset Power Rating	895 kVA	812 kVA
Genset power rating with fan @ 0.8 power factor	716 ekW	650 ekW
Emissions	Low BSFC	
Performance Number	EM3834	EM3835
<b>Fuel Consumption</b>		
100% load with fan, L/hr (gal/hr)	192 (50.7)	174.7 (46.1)
75% load with fan, L/hr (gal/hr)	141.8 (37.5)	127.6 (33.7)
50% load with fan, L/hr (gal/hr)	95.9 (25.3)	88.6 (23.4)
25% load with fan, L/hr (gal/hr)	56.8 (15.0)	53.2 (14.1)
<b>Cooling System<sup>1</sup></b>		
Radiator air flow restriction (system), kPa (in. Water)	0.12 (0.48)	0.12 (0.48)
Radiator air flow, m³/min (cfm)	NA	
Engine coolant capacity, L (gal)	21 (5.5)	21 (5.5)
Radiator coolant capacity, L (gal)	89 (23.5)	89 (23.5)
Total coolant capacity, L (gal)	110 (29.1)	110 (29.1)
<b>Inlet Air</b>		
Combustion air inlet flow rate, m³/min (cfm)	64.9 (2291.2)	62.7 (2213.2)
Max. Allowable Combustion Air Inlet Temp, °C (°F)	49 (120)	49 (120)
<b>Exhaust System</b>		
Exhaust stack gas temperature, °C (°F)	429 (804.2)	408.3 (766.9)
Exhaust gas flow rate, m³/min (cfm)	158.5 (5597.5)	147.8 (5218.9)
Exhaust system backpressure (maximum allowable) kPa (in. water)	NA	
<b>Heat Rejection</b>		
Heat rejection to jacket water, kW (Btu/min)	214 (12197)	199 (11308)
Heat rejection to exhaust (total) kW (Btu/min)	683 (38840)	620 (35248)
Heat rejection to aftercooler, kW (Btu/min)	245 (13945)	226 (12840)
Heat rejection to atmosphere from engine, kW (Btu/min)	103 (5834)	91.5 (5204)

Emissions (Nominal) <sup>2</sup>	Standby			Prime		
NOx, mg/Nm <sup>3</sup> (g/hp-hr)	2781.9 (5.96)			2528.7 (5.45)		
CO, mg/Nm <sup>3</sup> (g/hp-hr)	127.8 (0.28)			76.6 (0.17)		
HC, mg/Nm <sup>3</sup> (g/hp-hr)	15.9 (0.04)			20.0 (0.05)		
PM, mg/Nm <sup>3</sup> (g/hp-hr)	9.9 (0.03)			8.4 (0.02)		
Alternator <sup>3</sup>						
Voltages	480 V	440 V	380 V	480 V	440 V	380 V
Motor starting capability @ 30% Voltage Dip & 0.8 P.F	2501 skVA	2142 skVA	1413 skVA	2512 skVA	2142 skVA	1630 skVA
Current	1076.5 amps	1174.4 amps	1359.8 amps	977.3 amps	1066.1 amps	1223.1 amps
Frame Size	LC7224J	LC7224J	LC7224L	LC7224J	LC7224H	LC7224H
Excitation	AREP	AREP	AREP	AREP	AREP	AREP
Temperature Rise	130°C	150°C	130°C	130°C	125°C	163°C

## WEIGHTS & DIMENSIONS



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
3910 (154)	1461 (58)	2156 (85)	3862 (8514)

### APPLICABLE CODES AND STANDARDS:

AS1359, CSA C22.2 No100-04, UL142, UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG1-22, NEMA MG1-33, 2006/95/EC, 2006/42/EC, 2004/108/EC.

Note: Codes may not be available in all model configurations. Please consult your local Cat Dealer representative 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 kW 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 ISO3046 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.

<sup>2</sup> Emissions data measurement procedures are consistent with those described in EPA CFR 40 Part 89, Subpart D & E and ISO8178-1 for measuring HC, CO, PM, NOx. Data shown is based on steady state operating conditions of 77° F, 28.42 in HG and number 2 diesel fuel with 35° API and LHV of 18,390 BTU/lb. The nominal emissions data shown is subject to instrumentation, measurement, facility and engine to engine variations. Emissions data is based on 100% load and thus cannot be used to compare to EPA regulations which use values based on a weighted cycle.

<sup>3</sup> UL 2200 Listed packages may have oversized generators with a different temperature rise and motor starting characteristics. Generator temperature rise is based on a 40° C ambient per NEMA MG1-32.

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