## Cat® DE55 GC

### **Diesel Generator Sets**



Standby: 50 Hz & 60 Hz



Engine Model	Cat® C3.3 Inline 4-stroke Diesel	
Bore x Stroke	105.0 mm x 127.0 mm (4.1 in x 5.0 in	
Displacement	3.3 L (201.4 in³)	
Compression Ratio	17.25:1	
Aspiration	Turbocharged	
Fuel Injection System	Inline	
Governor	Mechanical	

Image shown might not reflect actual configuration.

	Standby		
Model	50 Hz kVA (ekW)	60 Hz kVA (ekW)	Emission Strategy
DE55 GC	55.0 (44.0)	62.5 (50.0)	Low BSFC

#### PACKAGE PERFORMANCE

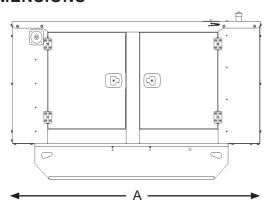
Performance	Standby			
	50 Hz	60 Hz		
Genset power rating	55.0 kVA	62.5 kVA		
Genset power rating with fan @ 0.8 power factor	44.0 kW	50.0 kW		
Emissions	Low BSFC			
Performance number	P2506B	P2506A		
Fuel Consumption				
Fuel tank capacity, litres (US gal)	103 (	27.2)		
100% load with fan, L/hr (gal/hr)	12.7 (3.4)	15.1 (4.0)		
75% load with fan, L/hr (gal/hr)	9.5 (2.5)	11.4 (3.0)		
50% load with fan, L/hr (gal/hr)	6.7 (1.8)	8.2 (2.2)		
Cooling System <sup>1</sup>				
Radiator air flow, m³/min (cfm)	110.4 (3899)	145.8 (5149)		
Total coolant capacity, L (gal)	10.2 (2.7)			
Inlet Air				
Max. combustion air intake restriction, kPa (in H <sub>2</sub> O)	8.0 (	32.1)		
Combustion air inlet flow rate, m³/min (cfm)	3.9 (138)	4.9 (173)		
Exhaust System				
Exhaust stack gas temperature, °C (°F)	571 (1060)	564 (1047)		
Exhaust gas flow rate, m³/min (cfm)	10.4 (367)	12.5 (441)		
Exhaust system backpressure (maximum allowable), kPa (in. water)	10.0 (3.0)	15.0 (4.4)		
Heat Rejection				
Heat rejection to jacket water, kW (Btu/min)	38.0 (2161)	43.0 (2445)		
Heat rejection to alternator, kW (Btu/min)	5.4 (307)	5.9 (336)		
Heat rejection to atmosphere from engine, kW (Btu/min)	11 (626)	11 (626)		
Heat rejection to exhaust (total) kW (Btu/min)	46.0 (2618)	54.0 (3074)		

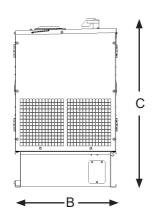
# **DE55 GC Diesel Generator Sets Electric Power**



Alternator <sup>2</sup>		50 Hz				60 Hz		
Voltages	380	415	400	480	440	220	380	240
Motor starting capability @ 30% Voltage Dip, skVA	101	121	112	135	113	113	84	101
Current, amps	83.6	76.5	79.4	75.2	82	164	81.7	141.7
Temperature Rise, °C	163/27	163/27	163/27	130/40	163/27	163/27	163/27	163/27
Frame Size	A1775L4							
Excitation	S.E							

#### **WEIGHTS & DIMENSIONS**





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

Dim "A"	Dim "B"	Dim "C"	Dry Weight
	mm (in)	mm (in)	kg (lb)
2278 (93.6)	900 (35.4)	1332 (52.4)	1031 (2273.0)

<sup>\*</sup>Weight includes standard generator, Enclosure and Integral Tank base

#### APPLICABLE CODES AND STANDARDS:

AS1359, NFPA37, NFPA70, NFPA99, NFPA110, IEC 60034-1, ISO 3046, ISO 8528, 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.

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.
- <sup>2</sup> .Generator temperature rise is based on a 27°C ambient per NEMA MG1-32.

## LET'S DO THE WORK.

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