

# Cat® DE550 GC

## Diesel Generator Sets



### Standby: 50 Hz



Image shown may not reflect actual configuration

Engine Model	Cat® C13 In-line 6, 4-cycle diesel
Bore x Stroke	130 mm x 157 mm (5.1 in x 6.2 in)
Displacement	12.5 L (763 in <sup>3</sup> )
Compression Ratio	15.8:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	EUI
Governor	Electronic ADEM™ A4 - G3 Class* capable

Model	Standby 50 Hz kVA (ekW)	Emission Strategy
DE550 GC	550.0 (440.0)	Low BSFC

### PACKAGE PERFORMANCE

Performance	Standby
	50 Hz
Genset power rating	550.0
Genset power rating with fan @ 0.8 power factor	440.0
Emissions	Low BSFC
Performance number	EM5582
<b>Fuel Consumption</b>	
Fuel tank capacity, litres (US gal)	686 (181.2)
100% load with fan, L/hr (gal/hr)	110.3 (29.1)
75% load with fan, L/hr (gal/hr)	80.8 (21.3)
50% load with fan, L/hr (gal/hr)	54.6 (14.4)
<b>Cooling System<sup>1</sup></b>	
Radiator air flow, m <sup>3</sup> /min (cfm)	467 (16492)
Radiator air flow restriction (system), kPa (in. Water)	0.125 (0.5)
Total coolant capacity, L (gal)	47 (12.4)
<b>Inlet Air</b>	
Max. combustion air intake restriction, kPa (in. Water)	6.22 (25)
Combustion air inlet flow rate, m <sup>3</sup> /min (kg/hr)	38.49 (2179)
<b>Exhaust System</b>	
Exhaust stack gas temperature, °C (°F)	529.8 (986)
Exhaust gas flow rate, m <sup>3</sup> /min (cfm)	87.8 (3101)
Exhaust system backpressure (minimum allowable), kPa (in. water)	9.7 (39)
Exhaust system backpressure (maximum allowable), kPa (in. water)	14.68 (59)
<b>Heat Rejection</b>	
Heat rejection to jacket water, kW (Btu/min)	159 (9042)
Heat rejection to exhaust (total), kW (Btu/min)	410 (23316)
Heat rejection to atmosphere from engine, kW (Btu/min)	30.5 (1735)
Heat rejection to aftercooler, kW (Btu/min)	103 (5858)

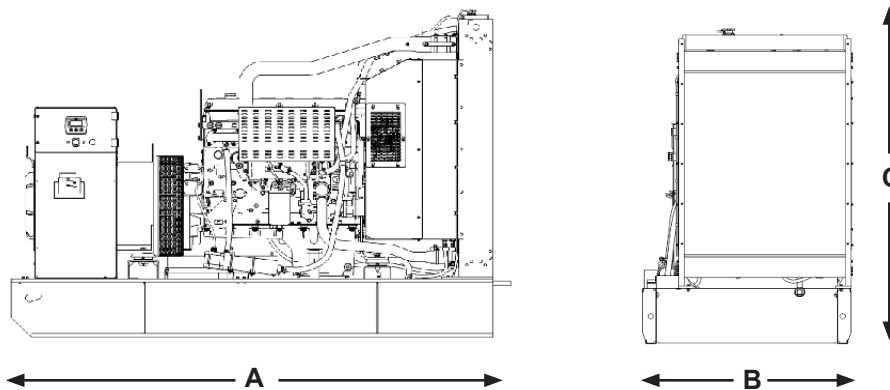
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## Electric Power



Alternator <sup>2</sup>	50 Hz		
	Voltages	380	415
Motor starting capability @ 30% Voltage Dip, skVA	1328	1776	1474
Current, amps	765.16	793.86	835.64
Temperature Rise, °C	163		
Frame Size	A2985L41		
Excitation	S.E		

### WEIGHTS & DIMENSIONS



Length "A" mm (in)	Width "B" mm (in)	Height "C" mm (in)	Dry Weight kg (lb)
3100 (122.0)	1338 (52.6)	2168 (85.3)	3036 (6693.2)

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

#### 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.
- \* Governing Class capability as per ISO8528-5. Consult your local Cat dealer for configuration and site specific transient performance classification.

## LET'S DO THE WORK.™

[www.cat.com/electricpower](http://www.cat.com/electricpower)

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