

# Cat® DE350S GC

## Diesel Generator Sets



Standby: 60 Hz



Image shown may not reflect actual configuration.

Engine Model	Cat® C9.3B In-line 6, 4-cycle diesel
Bore x Stroke	115 mm x 149 mm
Displacement	9.3 L
Compression Ratio	16.5:1
Aspiration	Turbocharged Air-to-Air Aftercooled
Fuel Injection System	Common Rail
Governor	Electronic ADEM A6

Model	Standby	Emission Strategy
DE350S GC	437.5 kVA	Low BSFC

### PACKAGE PERFORMANCE

Performance	Standby
	60 Hz
Genset power rating	437.5
Genset power rating with fan @ 1.0 power factor	350
Emissions	Low BSFC
Performance number	EM5664
<b>Fuel Consumption</b>	
100% load with fan, L/hr (gal/hr)	91.2 (24.1)
75% load with fan, L/hr (gal/hr)	69.2 (18.3)
50% load with fan, L/hr (gal/hr)	48.8 (12.9)
25% load with fan, L/hr (gal/hr)	29.0 (7.7)
<b>Cooling System<sup>1</sup></b>	
Radiator air flow restriction (system), kPa (in. water)	0.125 (0.5)
Radiator air flow, m <sup>3</sup> /min (cfm)	561.4 (19825.7)
Total coolant capacity, L (gal)	34 (8.98)
<b>Inlet Air</b>	
Max. combustion air intake restriction, kPa (in. water)	6.2 (24.9)
Combustion air inlet flow rate, m <sup>3</sup> /min (kg/hr)	25.1 (887)
<b>Exhaust System</b>	
Exhaust stack gas temperature, °C (°F)	522 (972)
Exhaust gas flow rate, m <sup>3</sup> /min (cfm)	70.2 (2478.2)
Exhaust system backpressure (minimum allowable) kPa (in. water)	8 (32.1)
Exhaust system backpressure (maximum allowable), kPa (in. water)	12 (48.2)
<b>Heat Rejection</b>	
Heat rejection to jacket water, kW (Btu/min)	140 (7940)
Heat rejection to exhaust (total) kW (Btu/min)	340 (19352)
Heat rejection to aftercooler, kW (Btu/min)	81.8 (4653)
Heat rejection to atmosphere from engine, kW (Btu/min)	25.5 (1449)
<b>Heat Rejection</b>	
NOx, mg/Nm <sup>3</sup> (g/hp-hr)	3099.3 (6.27)
CO, mg/Nm <sup>3</sup> (g/hp-hr)	537.1 (1.08)
HC, mg/Nm <sup>3</sup> (g/hp-hr)	40.7 (0.10)
PM, mg/Nm <sup>3</sup> (g/hp-hr)	14.5 (0.04)

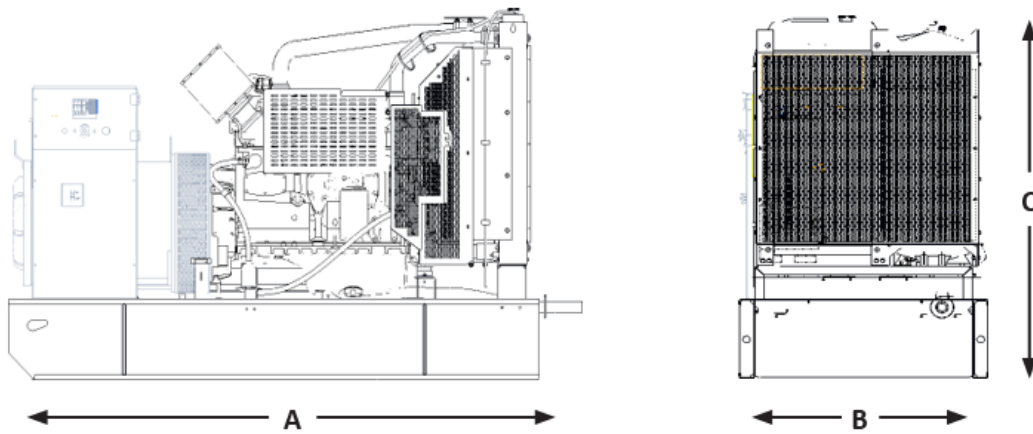
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## Electric Power



Alternator <sup>2</sup>	50 Hz				
	Voltages	480V	440V	220V	380V
Motor starting capability @ 30% Voltage Dip, skVA	1099	922	922	691	1099
Current, amps	526	574	1148	596	1052
Genset Rating ekW	350	350	350	313.9	350
Frame Size	A2925L41				
Excitation	S.E				

### WEIGHTS & DIMENSIONS



Length "A" mm (in)	Width "B" mm (in)	Height "C" mm (in)	Dry Weight kg (lb)
2640 (103.9)	1160 (45.6)	1770 (69.6)	2358 (5198.5)

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

#### APPLICABLE CODES AND STANDARDS:

AS1359, CSA C22.2 No100-04, NFPA37, NFPA70, NFPA99, NFPA110, IEC60034-1, ISO3046, ISO8528, 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 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 / EU regulations which use values based on a weighted cycle.

**LET'S DO THE WORK.™**

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