

# Cat® DE200 GC

## Diesel Generator Sets



### Standby and Prime: 50 Hz & 60 Hz



Image shown may not reflect actual configuration

Engine Model	Cat® C7.1 Inline 4-stroke Diesel
Bore x Stroke	105.0 mm x 135.0 mm (4.1 in x 5.3 in)
Displacement	7.0 L (427.8 in³)
Compression Ratio	16.7:1
Aspiration	Turbocharged Air To Air Charge Cooled
Fuel Injection System	Inline
Governor	Mechanical - G2 Class* capable

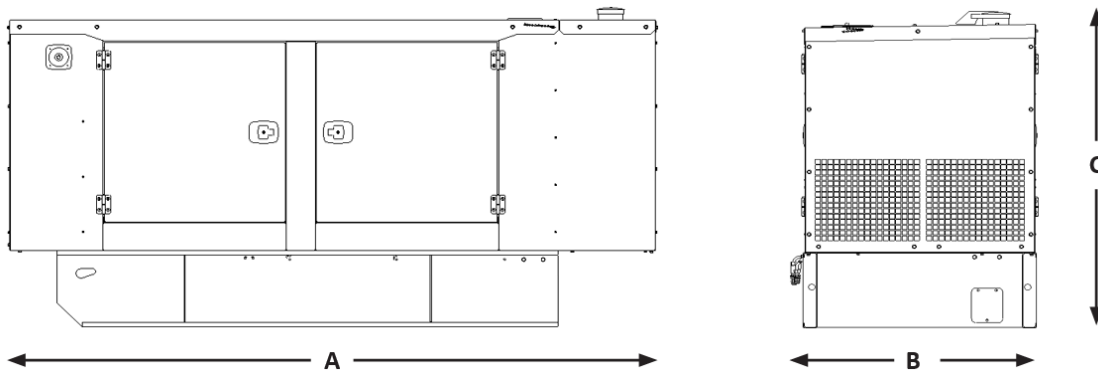
Model	Standby		Prime (SRR)	Emission Strategy
	50 Hz kVA (ekW)	60 Hz kVA (ekW)	50 Hz kVA (ekW)	
DE200 GC	200 (160)	218.8 (175)	180 (144)	Low BSFC

### PACKAGE PERFORMANCE

Performance	Standby		Prime (SRR)
	50 Hz	60 Hz	50 Hz
Genset power rating	200 kVA	218.8 kVA	180 kVA
Genset power rating with fan @ 0.8 power factor	160 ekW	175 ekW	144 ekW
Emissions	Low BSFC		
Performance number	P4196B	P4198A	P4196A
<b>Fuel Consumption</b>			
Fuel tank capacity, L (gal)	325 (85.9)		
100% load with fan, L/hr (gal/hr)	43.8 (11.6)	52 (13.7)	40.2 (10.6)
75% load with fan, L/hr (gal/hr)	34.2 (9.0)	39.6 (10.4)	30.9 (8.2)
50% load with fan, L/hr (gal/hr)	22.3 (5.9)	27.2 (7.2)	19.7 (5.2)
<b>Cooling System<sup>1</sup></b>			
Radiator air flow, m³/min (CFM)	312 (11018)	378 (13349)	312 (11018)
Total coolant capacity, L (gal)	27.0 (7.1)		
<b>Inlet Air</b>			
Max. combustion air intake restriction, kPa (in. water)	5.0 (20.1)		
Combustion air inlet flow rate, m³/min (CFM)	13.6 (480)	15.8 (557)	13.0 (457)
<b>Exhaust System</b>			
Exhaust stack gas temperature, °C (°F)	538 (1000)	485 (905)	538 (1000)
Exhaust gas flow rate, m³/min (CFM)	36.2 (1278)	39.4 (1391)	31.6 (1114)
Exhaust system backpressure (maximum allowable), kPa (in. water)	6.0 (1.8)		
<b>Heat Rejection</b>			
Heat rejection to jacket water, kW (BTU/min)	76.4 (4345)	88 (5004)	74.2 (4220)
Heat rejection to alternator, kW (BTU/min)	13.2 (751)	14 (796)	13.2 (751)
Heat rejection to atmosphere from engine, kW (BTU/min)	26.3 (1495)	28 (1592)	22.7 (1291)
Heat rejection to exhaust (total), kW (BTU/min)	140.3 (7979)	159.9 (9093)	136.0 (7734)

Alternator <sup>2</sup>	50 Hz (Standby/Prime)			60 Hz (Standby)				
	Voltages	380	415	400	480	440	220	380
Motor starting capability @ 30% Voltage Dip, skVA	543	648	603	723	608	608	453	541
Current, Amps	303 / 272	278 / 250	289 / 260	263	287	574	319	526
Temperature Rise, °C	150/40	150/40	150/40	130/40	150/40	150/40	163/27	163/27
Frame Size	A2635L4							
Excitation	S.E							

### WEIGHTS & DIMENSIONS



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

Length "A" mm (in)	Width "B" mm (in)	Height "C" mm (in)	Dry Weight <sup>#</sup> kg (lb)
3325 (130.9)	1134 (44.6)	1666 (65.9)	1931 (4257.1)

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

#### APPLICABLE CODES AND STANDARDS:

AS1359, IEC60034-1, ISO3046, ISO8528, NEMA MG1-33, EAC,CE,UKCA.

**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 (SRR):** Output available with varying load. 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. Maximum run time not to exceed 2000 hours per year.

#### 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 IEC 60034-1.

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

\* Governing Class capability as per ISO8528-5 for 60 Hz application only. Consult your local Cat dealer for configuration and site specific transient performance classification.