

# Cat® D1250 GC

## Diesel Generator Sets



Image shown may not reflect actual configuration.

Engine	C32B
Bore – mm (in)	145 (5.7)
Stroke – mm (in)	162 (6.4)
Displacement – L (in <sup>3</sup> )	32.1 (1959)
Compression Ratio	14.0:1
Aspiration	TA
Fuel System	EUI
Governor Type	ADEM™ A4

Model	Standby 60 Hz ekW (kVA)	Emissions Performance
D1250 GC	1250 (1562)	U.S. EPA Emergency Stationary Use only (Tier 2)

### Standard Features

#### Cat® Diesel Engine

- Meets U.S. EPA Emergency Stationary Use only (Tier 2) emission standards
- Reliable performance proven in thousands of applications worldwide

#### Generator Set Package

- Meets NFPA 110 start time & block load requirements
- Conforms to ISO 8528-5 G3 load acceptance requirements
- Reliability is verified through prototype testing, which includes torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing

#### Alternators

- Superior motor starting capability minimizes the need for oversizing the generator
- Designed to match the performance and output characteristics of Cat diesel engines

#### Cooling System

- Cooling systems available to operate in ambient temperatures up to 50°C (122°F)
- Tested to ensure proper generator set cooling

#### GCCP Control Panels

- User-friendly set-up and button layout for ease of use
- Multiple parameters are monitored & displayed simultaneously for full visibility
- The module can be configured to suit a wide range of applications for user flexibility

#### Warranty and Extended Service Coverage (ESC)

- 24 months/1000-hour warranty for standby ratings
- 5 yrs Platinum Complimentary Extended Service Coverage

#### Worldwide Product Support

- Cat dealers have over 1,800 dealer branch stores operating in 200 countries
- Your local Cat dealer provides extensive post-sale support, including maintenance and repair agreements

#### Financing

- Caterpillar offers an array of financial products to help you succeed through financial service excellence
- Options include loans, finance lease, operating lease, working capital, and revolving line of credit
- Contact your local Cat dealer for availability in your region

## Standard and Optional Equipment

### Engine

#### **Air Cleaner**

- Single element
- Dual element

#### **Starting**

- Standard batteries
- Oversized batteries
- Dual electric starter
- Jacket water heater

#### **Engine attachments**

- 6" Exhaust Flexible Fittings
- 6" Exhaust Flange Kits
- Radiator Duct Flange

### Alternator

#### **Output voltage**

- 480V
- 600V

#### **Temperature Rise (over 40°C ambient)**

- 125 °C/
- 105 °C

#### **Winding type**

- Random wound

#### **Excitation**

- Internal excitation (IE)
- Permanent magnet (PM)

#### **Attachments**

- Anti-condensation heater

### Power Termination

#### **Type**

- Circuit breaker (Primary)
  - 1200A
  - 1600A
  - 2000A
- Circuit breaker (Auxiliary)
  - 250A
  - 400A
- 3-pole
- Manually operated

#### **Trip Unit**

- LSI
- LSI-G
- LSI-G-P

### Factory Enclosure

- Sound attenuated
- Weatherproof

#### **Attachments**

- DC lighting package

### Fuel Tank

- Intergrated 2100 gal (7950 L)
- Sub base 3000 gal (11356 L)
- Sub base 4200 gal (15876 L)

### Control System

#### **Controller**

- GCCP 1.2

#### **Attachments**

- Remote annunciator module
- Expansion I/O module
- 100A Load Center
- 20A GFCI AC Receptacle
- Ground Fault Indication
- Audible Alarm

### Charging

- Battery charger – 10A (Installed)
- Battery charger – 20A (Shipped loose)

### Telematics

#### **Connectivity**

- Ethernet
- Cellular

### Extended Service Options

#### **Terms**

- 3 year
- 5 year
- 10 year

#### **Coverage**

- Silver
- Gold
- Platinum

### Certifications

- UL 2200 Listed
- cUL CSA 22.2 No. 100-14
- IBC seismic certification

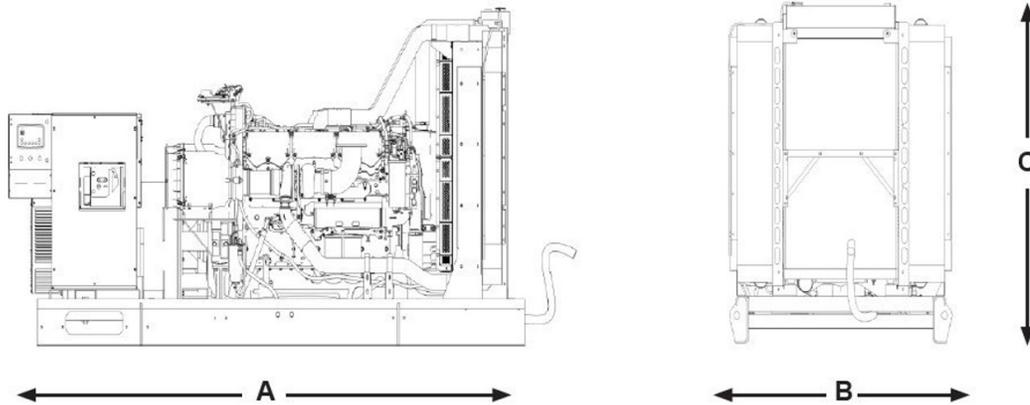
**Note:** Some options may not be available on all models. Certifications may not be available with all model configurations. Consult factory for availability.

**Package Performance – D1000 GC**

<b>Performance</b>	<b>Standby</b>	
Frequency	60 Hz	
Gen set power rating with fan	1250 eKW	
Gen set power rating with fan @ 0.8 power factor	1562 kVA	
Fueling strategy	EPA ESE (Tier 2)	
Performance number	EM7601	
<b>Fuel Consumption</b>		
100% load with fan – L/hr (gal/hr)	321.9	(85)
75% load with fan – L/hr (gal/hr)	261.6	(69.1)
50% load with fan – L/hr (gal/hr)	176.2	(46.5)
25% load with fan – L/hr (gal/hr)	99.4	(26.2)
<b>Cooling System</b>		
Radiator air flow restriction (system) – kPa (in. water)	0.12	(0.48)
Radiator air flow – m <sup>3</sup> /min (CFM)	1109	(39164)
Engine coolant capacity – L (gal)	55	(14.5)
Radiator coolant capacity – L (gal)	61	(16.1)
Total coolant capacity – L (gal)	116	(30.6)
<b>Inlet Air</b>		
Combustion air inlet flow rate – m <sup>3</sup> /min (CFM)	118.0	(4168.3)
<b>Exhaust System</b>		
Exhaust stack gas temperature – °C (°F)	430.3	(806.6)
Exhaust gas flow rate – m <sup>3</sup> /min (CFM)	283.4	(10005.8)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(27.0)
<b>Heat Rejection</b>		
Heat rejection to jacket water – kW (BTU/min)	403	(22908)
Heat rejection to exhaust (total) – kW (BTU/min)	1097	(62361)
Heat rejection to aftercooler – kW (BTU/min)	452	(25715)
Heat rejection to atmosphere from engine – kW (BTU/min)	222	(12620)
Heat rejection from alternator – kW (BTU/min)	58.9	(3350)
<b>Emissions* (Nominal)</b>		
NO <sub>x</sub> mg/Nm <sup>3</sup> (g/hp-h)	2662.7	(5.20)
CO mg/Nm <sup>3</sup> (g/hp-h)	44.5	(0.09)
HC mg/Nm <sup>3</sup> (g/hp-h)	20.8	(0.05)
PM mg/Nm <sup>3</sup> (g/hp-h)	5.3	(0.01)
<b>Emissions* (Potential Site Variation)</b>		
NO <sub>x</sub> mg/Nm <sup>3</sup> (g/hp-h)	3221.8	(6.29)
CO mg/Nm <sup>3</sup> (g/hp-h)	83.2	(0.18)
HC mg/Nm <sup>3</sup> (g/hp-h)	39.4	(0.10)
PM mg/Nm <sup>3</sup> (g/hp-h)	10.4	(0.03)

\*mg/Nm<sup>3</sup> levels are corrected to 5% O<sub>2</sub>. Contact your local Cat dealer for further information.

## Weights and Dimensions



Model	Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
D1250 GC	4175 (164.3)	2090.5 (82.3)	2268 (89.3)	7156 (15776)

**Note:** For reference only. Do not use for installation design. Contact your local Cat dealer for precise weights and dimensions.

## Ratings Definitions

### 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.

### Applicable Codes and Standards

AS 1359, UL 2200 3rd edition, UL 489, UL 869A, IBC, IEC 60034-1, ISO 3046, ISO 8528, NEMA MG1-22, NEMA MG1-33, 2014/35/EU, 2006/42/EC, 2014/30/EU and facilitates compliance to NFPA 37, NFPA 70, NFPA 99, NFPA 110.

**Note:** Codes may not be available in all model configurations. Site level review needed for NFPA70. Please consult your local Cat dealer for availability.

### Fuel Rates

Fuel rates are based on fuel oil of 35° API [16°C (60°F)] gravity having an LHV of 42,780 kJ/kg (18,390 Btu/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal.).

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

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