

# Cat® D1250 GC

## Diesel Generator Sets



Image shown might not reflect actual configuration.

Engine	C32
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 kW (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

- Accepts 100% block load in one step and meets NFPA 110 loading 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 TBD (To be validated)
- 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 Gold 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 Starters
- 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  LSIG  LSIG-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)

#### Cat Connect

##### **Connectivity**

- Ethernet

- Cellular

#### Extended Service Options

##### **Terms**

- 3 year

- 4 year

- 5 year

##### **Coverage**

- Silver

- Gold

#### 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.

# D1250 GC Diesel Generator Sets

## Electric Power

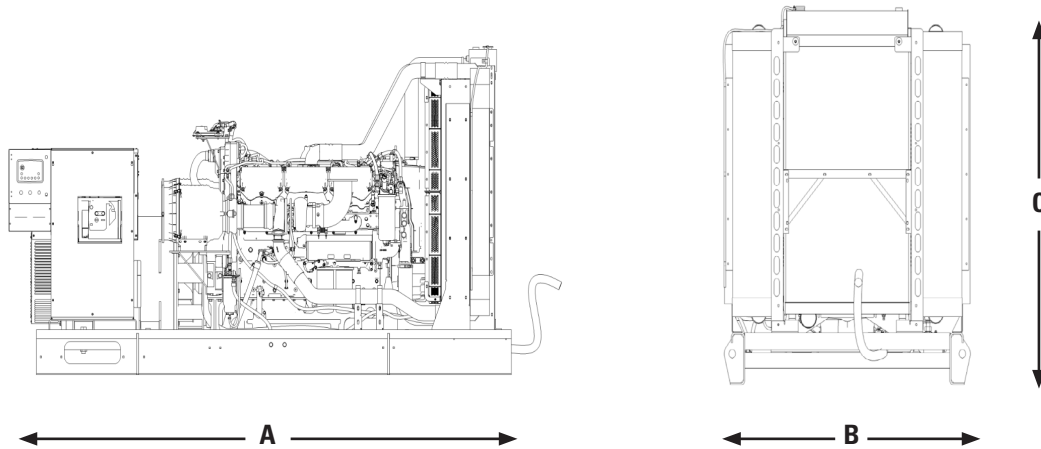


### Package Performance – D1250 GC

Performance	Standby	
Frequency	60 Hz	
Gen set power rating with fan	1250 ekW	
Gen set power rating with fan @ 0.8 power factor	1562.5 kVA	
Fueling strategy	EPA ESE (Tier 2)	
Performance number	EM2324	
<b>Fuel Consumption</b>		
100% load with fan – L/hr (gal/hr)	330.9	(87.4)
75% load with fan – L/hr (gal/hr)	268.9	(71.0)
50% load with fan – L/hr (gal/hr)	181.1	(47.8)
25% load with fan – L/hr (gal/hr)	102.1	(27.0)
<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)	TBD	TBD
Engine coolant capacity – L (gal)	TBD	TBD
Radiator coolant capacity – L (gal)	TBD	TBD
Total coolant capacity – L (gal)	TBD	TBD
<b>Inlet Air</b>		
	118.0	(4168.3)
		(3094.1)
<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>		
NOx mg/Nm <sup>3</sup> (g/hp-h)	2416.9	(5.13)
CO mg/Nm <sup>3</sup> (g/hp-h)	53.0	(0.11)
HC mg/Nm <sup>3</sup> (g/hp-h)	21.6	(0.05)
PM mg/Nm <sup>3</sup> (g/hp-h)	5.1	(0.01)
<b>Emissions* (Potential Site Variation)</b>		
NOx mg/Nm <sup>3</sup> (g/hp-h)	2924.5	(6.20)
CO mg/Nm <sup>3</sup> (g/hp-h)	99.1	(0.21)
HC mg/Nm <sup>3</sup> (g/hp-h)	40.8	(0.10)
PM mg/Nm <sup>3</sup> (g/hp-h)	10.0	(0.02)

\*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)	Wet 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 and 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

CSA C22.2 No. 100-14, UL 142, UL 489, UL 869A, UL 2200, IBC 2018, ISO 3046, ISO 8528 and facilitates compliance to NFPA37, NFPA70, NFPA99 and NFPA110 codes

**Note:** Codes may not be available in all model configurations. 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.)

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