

Cat® D1000 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 ³)	32.1 (1959)
Compression Ratio	15.0:1
Aspiration	TA
Fuel System	EUI
Governor Type	ADEM™ A4

Model	Standby 60 Hz ekW (kVA)	Emissions Performance
D1000 GC	1000 (1250)	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
- Complimentary 5-Year Platinum Cat® Extended Service Coverage (ESC) available on eligible products*

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

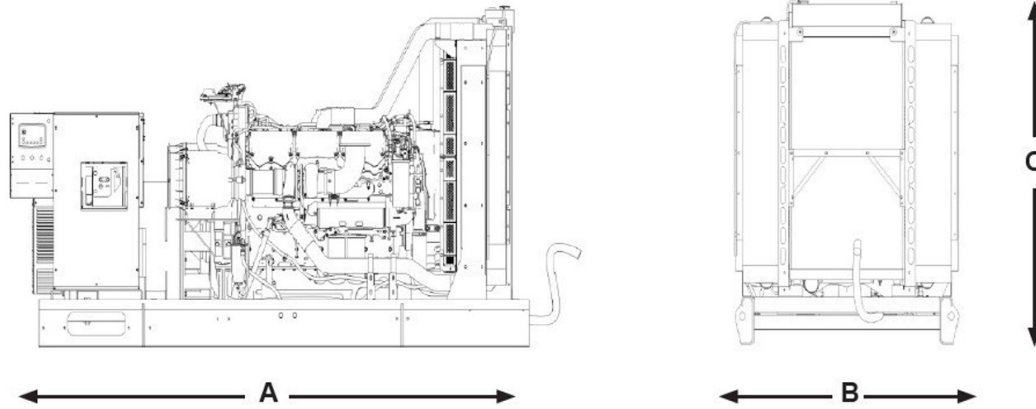
Note: Some options may not be available on all models. Certifications may not be available with all model configurations. Consult factory for availability.

Package Performance – D1000 GC

Performance	Standby	
Frequency	60 Hz	
Genset power rating with fan	1000 ekW	
Genset power rating with fan @ 0.8 power factor	1250 kVA	
Fueling strategy	EPA ESE (Tier 2)	
Performance number	EM7600	
Fuel Consumption		
100% load with fan – L/hr (gal/hr)	272.1	(71.9)
75% load with fan – L/hr (gal/hr)	213.4	(56.4)
50% load with fan – L/hr (gal/hr)	144.7	(38.2)
25% load with fan – L/hr (gal/hr)	82.6	(21.8)
Cooling System		
Radiator air flow restriction (system) – kPa (in. water)	0.12	(0.48)
Radiator air flow – m ³ /min (CFM)	943	(33301)
Engine coolant capacity – L (gal)	55	(14.5)
Radiator coolant capacity – L (gal)	49	(12.9)
Total coolant capacity – L (gal)	104	(27.5)
Inlet Air		
Combustion air inlet flow rate – m ³ /min (CFM)	87.6	(3094.1)
Exhaust System		
Exhaust stack gas temperature – °C (°F)	476.4	(889.5)
Exhaust gas flow rate – m ³ /min (CFM)	228.4	(8065.3)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(27.0)
Heat Rejection		
Heat rejection to jacket water – kW (BTU/min)	352	(20033)
Heat rejection to exhaust (total) – kW (BTU/min)	1024	(58206)
Heat rejection to aftercooler – kW (BTU/min)	288	(16385)
Heat rejection to atmosphere from engine – kW (BTU/min)	127	(7238)
Heat rejection from alternator – kW (BTU/min)	55	(3131)
Emissions* (Nominal)		
NO _x mg/Nm ³ (g/hp-h)	2348.6	(4.93)
CO mg/Nm ³ (g/hp-h)	62.1	(0.13)
HC mg/Nm ³ (g/hp-h)	5.5	(0.01)
PM mg/Nm ³ (g/hp-h)	7.2	(0.02)
Emissions* (Potential Site Variation)		
NO _x mg/Nm ³ (g/hp-h)	2841.6	(5.97)
CO mg/Nm ³ (g/hp-h)	116.1	(0.24)
HC mg/Nm ³ (g/hp-h)	10.3	(0.03)
PM mg/Nm ³ (g/hp-h)	14.1	(0.04)

*mg/Nm³ levels are corrected to 5% O₂. 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)
D1000 GC	4175 (164.3)	1856 (73.1)	2217.5 (87.3)	6654 (14669)

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.

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.).

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.

*Coverage subject to terms and conditions. Eligibility criteria and program availability subject to change without notice. No additional warranty, representation, or obligation, express or implied, is created or extended beyond those expressly set forth in the relevant ESC terms.

www.cat.com/electricpower

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