# Cat® D1000 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 (in³)	32.1 (1959)	
Compression Ratio	15.0:1	
Aspiration	TA	
Fuel System	EUI ADEM™ A4	
Governor Type		

Model	<b>Standby</b> 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
- 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

LEHE20273-08 Page 1 of 4

# **D1000 GC Diesel Generator Sets Electric Power**



## **Standard and Optional Equipment**

Engine	<b>Power Termination</b>	Charging
Air Cleaner  ☐ Single element	Type ☐ Circuit breaker (Primary) ☐ 10000 ☐ 100000	<ul><li>□ Battery charger – 10A (Installed)</li><li>□ Battery charger – 20A (Shipped loose)</li></ul>
☐ Dual element	☐ 1200A ☐ 1600A ☐ 2000A ☐ Circuit breaker (Auxiliary)	Cat Connect
Starting  ☐ Standard batteries ☐ Oversized batteries ☐ Dual Electric Starters	☐ 250A ☐ 400A ☐ 3-pole ☐ Manually operated  Trip Unit	Connectivity ☐ Ethernet ☐ Cellular
☐ Jacket water heater	□ LSI □ LSIG □ LSIG-P	<b>Extended Service Options</b>
Engine Attachments  ☐ 6" Exhaust Flexible Fittings ☐ 6" Exhaust Flange Kits ☐ Radiator Duct Flange	Factory Enclosure ☐ Sound attenuated ☐ Weatherproof	Terms □ 3 year □ 4 year □ 5 year
Alternator	Attachments	Coverage
Output voltage  □ 480V □ 600V	□ DC lighting package  Fuel Tank □ Intergrated 2100 gal (7950 L)	☐ Silver☐ Gold☐ Platinum
Temperature Rise (over 40°C ambient) □ 125°C	☐ Sub base 3000 gal (11356 L) ☐ Sub base 4200 gal (15876 L)	Certifications  ☐ UL 2200 Listed ☐ UL 2200 A 200 A N 400 A 44
□ 105°C	Control System	☐ cUL CSA 22.2 No. 100-14☐ IBC seismic certification
Winding type ☐ Random wound	Controller ☐ GCCP 1.2	a ibo soisine certification
Excitation  ☐ Internal excitation (IE) ☐ Permanent magnet (PM)  Attachments ☐ Anti-condensation heater	Attachments  ☐ Remote annunciator module ☐ Expansion I/O module ☐ 100A Load Center ☐ 20A GFCI AC Receptacle ☐ Ground Fault Indication ☐ Audible Alarm	

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

LEHE20273-08 Page 2 of 4

# **D1000 GC Diesel Generator Sets Electric Power**



## Package Performance — D1000 GC

Performance	Sta	ndby
Frequency	60	) Hz
Gen set power rating with fan	1000	) ekW
Gen set power rating with fan @ 0.8 power factor	1250	0 kVA
Fueling strategy	EPA ES	E (Tier 2)
Performance number	DM	9933
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 – m³/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 — m³/min (CFM)	87.6	(3094.1)
Exhaust System		
Exhaust stack gas temperature – °C (°F)	476.4	(889.5)
Exhaust gas flow rate — m³/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)		
NOx mg/Nm³ (g/hp-h)	2348.6	(4.93)
CO mg/Nm³ (g/hp-h)	62.1	(0.13)
HC mg/Nm³ (g/hp-h)	5.5	(0.01)
PM mg/Nm³ (g/hp-h)	7.2	(0.02)
Emissions* (Potential Site Variation)		
NOx mg/Nm³ (g/hp-h)	2841.6	(5.97)
CO mg/Nm³ (g/hp-h)	116.1	(0.24)
HC mg/Nm³ (g/hp-h)	10.3	(0.03)
PM mg/Nm³ (g/hp-h)	14.1	(0.04)

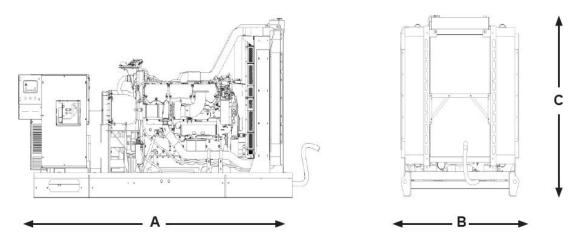
<sup>\*</sup>mg/Nm³ levels are corrected to 5%  $O_2$ . Contact your local Cat dealer for further information.

LEHE20273-08 Page 3 of 4

## **D1000 GC Diesel Generator Sets Electric Power**



### **Weights and Dimensions**



Model	Dim "A"	Dim "B" mm (in)	Dim "C"	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 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**

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,

**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

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