## **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 (in³)	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 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 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

LEHE20274-06 Page 1 of 4

# **D1250 GC Diesel Generator Sets Electric Power**



### **Standard and Optional Equipment**

Engine	Power Termination	Charging
Air Cleaner  □ Single element	Type ☐ Circuit breaker (Primary)	<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 ☐ Integrated 2100 gal (7950 L)	☐ Silver ☐ Gold ☐ Platinum
Temperature Rise (over 40°C ambient)  □ 125°C	☐ Sub base 3000 gal (1356 L) ☐ Sub base 4200 gal (15876 L)	Certifications  ☐ UL 2200 Listed ☐ cUL CSA 22.2 No. 100-14
□ 105°C	Control System	☐ IBC seismic certification
Winding type ☐ Random wound	Controller ☐ GCCP 1.2	
Excitation  ☐ Internal excitation (IE) ☐ Permanent magnet (PM)	Attachments  ☐ Remote annunciator module ☐ Expansion I/O module	
Attachments ☐ Anti-condensation heater	☐ 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.

LEHE20274-06 Page 2 of 4

# **D1250 GC Diesel Generator Sets Electric Power**



### Package Performance – D1250 GC

Performance	Star	ndby	
Frequency	60	Hz	
Gen set power rating with fan	1250	1250 ekW	
Gen set power rating with fan @ 0.8 power factor	1562	2 kVA	
Fueling strategy	EPA ESI	E (Tier 2)	
Performance number	EM2	2324	
Fuel Consumption			
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)	
Cooling System	'		
Radiator air flow restriction (system) – kPa (in. water)	0.12	(0.48)	
Radiator air flow – m³/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)	
Inlet Air			
Combustion air inlet flow rate — m³/min (CFM)	118.0	(4168.3)	
Exhaust System	'		
Exhaust stack gas temperature $-$ °C (°F)	430.3	(806.6)	
Exhaust gas flow rate – m³/min (CFM)	283.4	(10005.8)	
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(27.0)	
Heat Rejection			
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)	
Emissions* (Nominal)			
NOx mg/Nm³ (g/hp-h)	2416.9	(5.13)	
CO mg/Nm³ (g/hp-h)	53.0	(0.11)	
HC mg/Nm³ (g/hp-h)	21.6	(0.05)	
PM mg/Nm³ (g/hp-h)	5.1	(0.01)	
Emissions* (Potential Site Variation)			
NOx mg/Nm³ (g/hp-h)	2924.5	(6.20)	
CO mg/Nm³ (g/hp-h)	99.1	(0.21)	
HC mg/Nm³ (g/hp-h)	40.8	(0.10)	
PM mg/Nm³ (g/hp-h)	10.0	(0.02)	

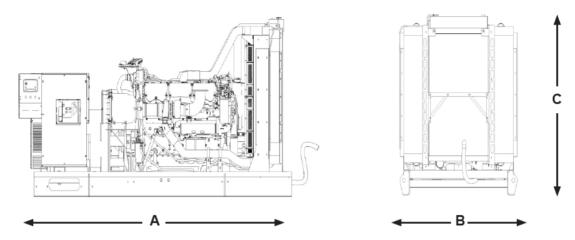
<sup>\*</sup>mg/Nm³ levels are corrected to 5%  $\,$   $\,$   $\,$   $\,$   $\,$   $\,$  Contact your local Cat dealer for further information.

LEHE20274-06 Page 3 of 4

# D1250 GC Diesel Generator Sets Electric Power



### **Weights and Dimensions**



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

as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

www.cat.com/electricpower ©2025 Caterpillar

All rights reserved.