Cat[®] D1250 GC Diesel Generator Sets





Engine	C32	
Bore – mm (in)	145 (5.7)	
Stroke – mm (in)	162 (6.4)	
Displacement – L (in ³)	32.1 (1959)	
Compression Ratio	14.0:1	
Aspiration	TA	
Fuel System	EUI	
Governor Type	ADEM™ A4	

Image shown might not reflect actual configuration.

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

- 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

D1250 GC Diesel Generator Sets Electric Power

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 lagge)
 - (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

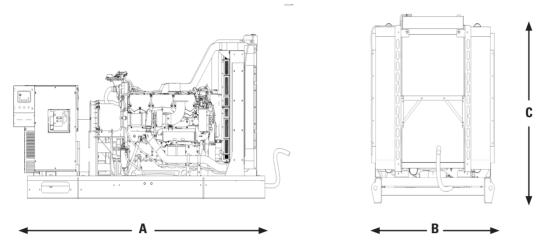
Performance	Sta	ndby	
Frequency	60) Hz	
Gen set power rating with fan	125	1250 ekW	
Gen set power rating with fan @ 0.8 power factor	1562	1562.5 kVA	
Fueling strategy	EPA ES	EPA ESE (Tier 2)	
Performance number	EM	EM2324	
Fuel Consumption			
100% load with fan – L/hr (gal/hr)	330.9	(87.4)	
75% load with 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)	
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			
118.0	(4168.3)	(3094.1)	
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/Nm ³ (g/hp-h)	2416.9	(5.13)	
CO mg/Nm ³ (g/hp-h)	53.0	(0.11)	
		(0.05)	
HC mg/Nm ³ (g/hp-h)	21.6	(0.05)	
HC mg/Nm ³ (g/hp-h) PM mg/Nm ³ (g/hp-h)	21.6 5.1	(0.05)	
PM mg/Nm ³ (g/hp-h) Emissions* (Potential Site Variation)			
PM mg/Nm ³ (g/hp-h) Emissions* (Potential Site Variation)	5.1	(0.01)	
Emissions* (Potential Site Variation) NOx mg/Nm ³ (g/hp-h)	5.1 2924.5	(0.01) (6.20)	

*mg/Nm³ levels are corrected to 5% O₂. Contact your local Cat dealer for further information.

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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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