



Caterpillar is leading the power generation marketplace with Power Solutions engineered to deliver unmatched flexibility, expandability, reliability, and cost-effectiveness.

Image shown may not reflect actual configuration

## Specifications

Generator Set Specifications	
Rating (Natural Gas)	125 ekW (156.3 kVA)
Voltage	480 Volts
Frequency	60 Hz
Speed	1800 rpm

Generator Set Configurations	
Emissions/Fuel Strategy	U.S. EPA Certified for Stationary Emergency Application

Engine Specifications		
Engine Model	8.8L V8, 4-cycle	
Bore	110.5 mm	4.35 in
Displacement	8.8 L	535 in <sup>3</sup>
Stroke	114.3 mm	4.5 in
Compression Ratio	10.1:1	
Aspiration	Turbocharged	
Governor Type	Electronic	
Fuel Type	Natural Gas	
Fuel Pressure Operating Range*	2.7 - 3.5 kPa	11 - 14 in. water

Package Dimensions**		
Length	3037 mm	119.6 in
Width	1110 mm	43.7 in
Height	1655 mm	65.2 in
Weight†	1399 kg	3084 lb

\*Optional fuel pressure options may be available, please contact your local dealer.

\*\*Note: For reference only – do not use for installation design. Please contact your local dealer for exact weight and dimensions.

†Weight includes: Oversize generator, skid base, circuit breaker, oil, and coolant.

## **Benefits & Features**

### **Generator**

- Matched to the performance and output characteristics of engine
- Industry-leading mechanical and electrical design
- Industry-leading motor starting capabilities
- High efficiency

### **Cat® EMCP Control Panel**

The EMCP 4 controller features the reliability and durability you have come to expect from your Cat equipment. EMCP 4 is a scalable control platform designed to ensure reliable generator set operation, providing extensive information about power output and engine operation. EMCP 4 systems can be further customized to meet your needs through programming and expansion modules.

### **Design Criteria**

- The generator set facilitates compliance with NFPA 110 and meets ISO 8528-5 requirements for transient response
- Cooling system designed to operate in 50°C/122°F ambient temperatures with an air flow restriction of 0.5 in. water

### **UL 2200/CSA – Optional**

- UL 2200 Listed
- CSA Certified

Certain restrictions may apply. Consult with your Cat dealer.

### **Worldwide Product Support**

Cat dealers provide extensive post-sale support including maintenance and repair agreements. Cat dealers have over 1,800 dealer branch stores operating in 200 countries.

## **Standard Equipment**

### **Air Inlet**

- Single element air filter

### **Cooling**

- Radiator and cooling fan complete with protective guards
- Standard ambient temperatures up to 50°C (122°F)

### **Exhaust**

- Exhaust outlet with 2.5" pipe

### **Fuel**

- Natural Gas
- Dual lock off valves
- NPT connection

### **Generator**

- Matched to the performance and output characteristics of engine
- IP23 protection
- Integrated Voltage Regulator

### **Governor**

- Electronic governor (non adjustable)

### **Control Panels**

- EMCP 4.2 Series generator set controller

### **Mounting**

- Rubber vibration isolators

### **Starting/Charging**

- 12 volt starting motor
- Batteries with rack and cables

## **Optional Equipment**

### **Generator**

- Excitation: [ ] Permanent Magnet Excited (PM)
- Oversize and premium generators
- Anti Condensation heater

### **Starting/Charging**

- Battery charger – UL Listed 10 amp
- Jacket water heater
- Battery heater
- Lube oil sump heater

### **General**

- UL 2200 Listed
- CSA Certified
- Enclosures: sound attenuated, weather protective
- Automatic transfer switches (ATS)
- Suitable for Use as Service Equipment (SUSE)

DG125-2

125 ekW/ 156.3 kVA/ 60 Hz/ 1800 rpm/ 480V/ 0.8 Power Factor

Rating Type: STANDBY

Emissions: U.S. EPA Certified for Stationary Emergency Application



**DG125-2**  
**125 ekW/ 156.3 kVA**  
**60 Hz/ 1800 rpm/ 480V**

Image shown may not reflect actual configuration

**Package Performance**

Fuel	Natural Gas
Generator Set Power Rating with Fan @ 0.8 Power Factor	125 ekW
Generator Set Power Rating	156.3 kVA

**Fuel Consumption with Natural Gas**

100% Load With Fan	41.5 m <sup>3</sup> /hr	1467 ft <sup>3</sup> /hr
75% Load With Fan	32.7 m <sup>3</sup> /hr	1156 ft <sup>3</sup> /hr
50% Load With Fan	24.3 m <sup>3</sup> /hr	858 ft <sup>3</sup> /hr

**Cooling System<sup>1</sup>**

Engine Coolant Capacity	13.7 L	3.6 gal
Radiator Coolant Capacity	11.8 L	3.1 gal
Engine Coolant Capacity with Radiator/Exp Tank	25.5 L	6.7 gal
Air Flow Restriction (System)	0.12 kPa	0.48 in. water

**Inlet Air**

Combustion Air Inlet Flow Rate	8.9 m <sup>3</sup> /min	315 cfm
--------------------------------	-------------------------	---------

**Exhaust System**

Exhaust Stack Gas Temperature	728°C	1342°F
Exhaust Gas Flow Rate	28.8 m <sup>3</sup> /min	1018 cfm
Exhaust System Backpressure (maximum allowable)	10.2 kPa	40.9 in. water



DG125-2

125 ekW/ 156.3 kVA/ 60 Hz/ 1800 rpm/ 480V/ 0.8 Power Factor

Rating Type: **STANDBY**

Emissions: **U.S. EPA Certified for Stationary Emergency Application**

<b>Heat Rejection</b>		
Heat Rejection to Coolant (total)	73.6 kW	4184 Btu/min
Heat Rejection to Atmosphere from Generator	9.8 kW	557 Btu/min

<b>Alternator<sup>2</sup></b>		
Motor Starting Capability @ 30% Voltage Dip	363 skVA	
Frame	LC3114G	
Temperature Rise	130°C	234°F
Excitation	Self Excited	

<b>Lube System</b>		
Sump Refill with Filter	7.6 L	2.00 gal

<b>Emissions (Nominal)<sup>3</sup></b>	
NOx + HC	2.7 g/kW-hr
CO	4.4 g/kW-hr

<sup>1</sup> For ambient and altitude capabilities consult your Cat dealer. Air flow restriction (system) is added to the existing restriction from the factory.

<sup>2</sup> Generator temperature rise is based on a 40°C (104°F) ambient per NEMA MG1-32.

<sup>3</sup> The nominal emissions data shown is subject to environment, instrumentation, measurement, facility and engine to engine variations.

**DG125-2**

**125 ekW/ 156.3 kVA/ 60 Hz/ 1800 rpm/ 480V/ 0.8 Power Factor**

**Rating Type: STANDBY**

**Emissions: U.S. EPA Certified for Stationary Emergency Application**

## **DEFINITIONS AND CONDITIONS**

### **Applicable Codes and Standards:**

CSA C22.2 No 100-04, UL 489, UL 869, UL 2200, NFPA 37, NFPA 70, NFPA 99, NFPA 110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG 1-22, NEMA MG 1-33.

**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.

**Ratings** are based on SAE J1349 standard conditions. These ratings also apply at ISO3046 standard conditions.

**Fuel Rates** are based on heat value for Natural Gas of 1015 BTU/SCF @77°F (25°C) and 328 feet (100m) above sea level.

Additional ratings may be available for specific customer requirements, contact your Cat representative for details.

Genset Ratings are based on ambient temperature of 77°F and elevation of 1200 ft above sea level.

For higher temperatures and elevations the following derate specifications are to be used:

Altitude: Derate 2.5% per every 1000ft (305 m.) above 1200ft (365 m.)

Temperature: Derate 1.5% per 10°F (5.55°C) temperature above 77°F (25°C)

Feature Code: 88LGE01  
Generator Arrangement: 454-5273  
Date: 12/02/2018  
Source Country: U.S.

LEHE1002-01

[www.Cat-ElectricPower.com](http://www.Cat-ElectricPower.com)

©2018 Caterpillar  
All rights reserved.

Materials and specifications are subject to change without notice.  
The International System of Units (SI) is used in this publication.

CAT, CATERPILLAR, their respective logos, ADEM, S•O•S, "Caterpillar Yellow", the "Power Edge" trade dress as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.