Cat® G3516 WITH FAST RESPONSE

Gas Generator Sets





Bore – mm (in)	170 (6.7)	
Stroke – mm (in)	215 (8.5)	
Displacement – L (in³)	78 (4765)	
Compression Ratio	atio 11.5:1	
Aspiration	Turbocharged	
Fuel System	Electronic Fuel Control Valve	
Governor Type	ADEM™ A4	

Image shown may not reflect actual configuration

Standby and Continuous 60 Hz ekW (kVA) w/Fan	Emissions Performance	
1500 (1875)	U.S. EPA Stationary Certified	

Standard Features

Cat® Natural Gas Engine

- Meets U.S EPA Stationary Non-Emergency standard to be used in Emergency and Non-Emergency applications
- Robust high speed block design provides prolonged life and lower owning and operating costs
- Designed for maximum performance on low pressure gaseous fuel supply

Generator Set Package

- Accepts 100% block load in one step and facilitates compliance with NFPA 110, Type 10 starting and loading requirements (LV and MV)
- Conforms to ISO 8528-5 G2 load acceptance criteria
- Reliability verified through torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing

Generators

- Superior motor starting capability minimizes need for oversizing generator
- Designed to match performance and output characteristics of Cat engines

Cooling System

- Cooling systems available to operate in ambient temperatures up to 43°C (110°F)
- Package tested to ensure proper cooling of complete generator set

Cat Energy Control System (ECS)

- · User-friendly interface and navigation
- Scalable system to meet a wide range of installation requirements
- Expansion modules and site specific programming for specific customer requirements
- · Graphical touchscreen display
- · Easily upgradeable

Warranty

- 24 months/1000-hour warranty for standby ratings
- 12 months/unlimited hour warranty for continuous ratings
- Extended service protection is available to provide extended coverage options

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

LEHE20847-07 Page 1 of 4



Optional Equipment

Power Termination	Charging	
Type □ Bus bar □ Circuit breaker □ 400A □ 800A	□ Battery charger – 20A□ Battery charger – 35A□ Battery charger – 50A	
□ 1200A □ 1600A	Vibration Isolators	
□ 3200A □ 4000A □ UL □ IEC	☐ Spring ☐ Seismic rated	
• •	Cat Connect	
Trip Unit □ LSI	Connectivity ☐ Ethernet ☐ Cellular	
□ LSIG-P	Extended Service Options	
Enclosure (DTO)	Terms	
☐ Weather protective☐ Sound attenuated	☐ 2 year ☐ 3 year ☐ 5 year	
Attachments	☐ 10 year	
□ Cold weather bundle□ DC lighting package□ AC lighting package□ Motorized louvers	Coverage □ Silver □ Gold □ Platinum	
Fuel System Pressure	☐ Platinum Plus	
☐ Standard	Ancillary Equipment	
☐ Low	□ Automatic transfer switch (ATS)□ Paralleling switchgear□ Paralleling controls	
Control System		
Controller ☐ Cat ECS 100		
☐ Cat ECS 200	Certifications	
□ EMCP 4.4 □ GDI Controller (US Grid Code) **Attachments* □ Local annunciator module □ Remote annunciator module □ Load share module	□ ULC 2200 Listed □ UL 1741 Grid Code	
	Type Bus bar Circuit breaker 400A	

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

LEHE20847-07 Page 2 of 4



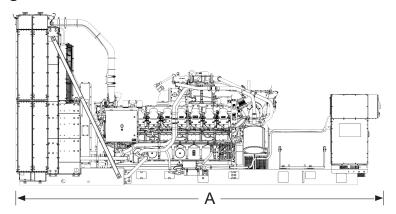
Package Performance

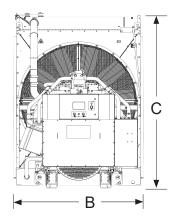
Performance	Standby & 0	Continuous
Frequency	uency 60 Hz	
Genset power rating @ 0.8 power factor – ekW (kVA)	1500 (1	875kVA)
Emissions	Certified - U.S.	EPA Stationary
Performance number	EM696	66 w/fan
Fuel Consumption		
100% load with fan – MJ/ekW-hr (Btu/ekW-hr)	10.30	(9771)
75% load with fan – MJ/ekW-hr (Btu/ekW-hr)	10.95	(10383)
50% load with fan – MJ/ekW-hr (Btu/ekW-hr)	12.31	(11671)
Cooling System		
Radiator air flow restriction – kPa (in. water)	0.12	(0.5)
Radiator air flow – m³/min (cfm)	2146	(75785)
Radiator ambient capability @ 304 m (1000 ft) – °C (°F)	43	(110)
Auxiliary circuit temperature (maximum inlet) – °C (°F)	54	(130)
Jacket water temperature (maximum outlet) – °C (°F)	99	(210)
Inlet Air		
Combustion air inlet flow rate - Nm³/bkW-hr (ft3/min)	4.31	(4672)
Altitude Capability		
At 25°C (77°F) ambient, above sea level – m (ft)	2000	(6562)
Exhaust System		
Exhaust temperature – engine outlet – °C (°F)	510	(951)
Exhaust Gas Flow – Nm³/bkW-hr (ft³/min)	4.58	(13231)
Exhaust Gas Mass Flow – kg/bkW-hr (lb/hr)	5.77	(21470)
Heat Rejection		
Heat rejection to jacket water circuit (JW+AC1+OC) – kW (Btu/min)	914	(51964)
Heat rejection to jacket water – kW (Btu/min)	551	(31308)
Heat rejection to exhaust (LHV to 120°C/248°F) – kW (Btu/min)	1191	(67725)
Heat rejection to auxiliary circuit – kW (Btu/min)	173	(9835)
Heat rejection to atmosphere from engine and generator – kW (Btu/min)	205	(8925)

LEHE20847-07 Page 3 of 4



Weights and Dimensions





Dim "A"	Dim "B"	Dim "C"	Dry Weight
mm (in)	mm (in)	mm (in)	kg (lb)
7000 (275.6)	2345 (92.3)	3265 (128.5)	14,314 (31,557)

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 an emergency outage. Average power output is 100% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

Continuous

Output available with non-varying load for unlimited time. Average power output is 70-100% of the continuous power rating. Typical peak demand is 100% of continuous rating for 100% of the operating hours.

Applicable Codes and Standards

AS 1359, UL 1741, ULC 2200 2nd edition, ULC 2200 3rd edition (ECS only), UL 489, UL 869A, 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. Please consult your local Cat dealer for availability.

Fuel Rates

- For transient response, ambient, and altitude capabilities consult your local Cat dealer.
- Fuel pressure range specified is to the engine fuel control valve. Additional fuel train components may be required and should be considered in pressure and flow calculations.
- For a complete reference of definitions and conditions see the following data sheets
 - a. 1500ekW Standby: EPA Certified EM6966 w/fan, EM6692 w/o fan
 - b. 1500ekW Continuous: EPA Certified EM6093 w/fan, EM6088 w/o fan
 - c. 1500ekW Standby: Non-Certified 0.5g EM6968 w/fan, EM6964 w/o fan
 - d. 1500ekW Continuous: Non-Certified 0.5g EM6095 w/fan, EM6092 w/o fan
 - e. 1500ekW Standby: Non-Certified 1.0g EM6967 w/fan, EM6963 w/o fan
 - f. 1500ekW Continuous: Non-Certified 1.0g EM6094 w/fan, EM6089 w/o fan

www.cat.com/electricpower

©2024 Caterpillar All rights reserved.

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