Cat® G3512

Gas Generator Sets





Bore – mm (in)	170 (6.7)	
Stroke – mm (in)	190 (7.5)	
Displacement – L (in³)	52 (3173)	
Compression Ratio	piration Turbocharged	
Aspiration		
Fuel System		
Governor Type	ADEM™ A4	

Image shown may not reflect actual configuration

Standby 60 Hz ekW (kVA)	Emissions Performance	
750 (937)	Meets U.S. EPA Stationary Emergency Standards	

Standard Features

Cat® Engine

- Robust high speed block design provides prolonged life and lower owning and operating costs
- Designed for maximum performance on low pressure gaseous fuel supply
- Simple open chamber combustion system for reliability and fuel flexibility

Generator Set Package

- Accepts 100% block load in one step and facilitates compliance with NFPA 110, Type 10 starting and loading requirements
- 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

EMCP 4 Control Panels

- · 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

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

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Optional Equipment

Engine	Power Termination	Charging	
Air Cleaner (Single Element) ☐ Installed ☐ Supplied loose Muffler ☐ Industrial grade (15 dB)	<i>Type</i> ☐ Bus bar ☐ Circuit breaker ☐ 400A ☐ 800A ☐ 1200A ☐ 1600A ☐ 2000A ☐ 2500A	 □ Battery charger – 5A □ Battery charger – 10A □ Battery charger – 20A □ Battery charger – 35A □ Battery charger – 50A 	
☐ Residential grade (18 dB) ☐ Critical grade (25 dB)	□ 3200A □ 4000A □ UL □ IEC □ 3-pole □ 4-pole	Vibration Isolators	
☐ Spark arresting		☐ Rubber	
Starting ☐ Standard batteries	☐ Manually operated ☐ Electrically operated	☐ Spring ☐ Seismic rated	
☐ Standard electric starter(s)	Trip Unit	Cat Connect	
□ Air starter(s)□ Jacket water heater	□ LSI □ LSI-G □ LSIG-P	Connectivity ☐ Ethernet	
Generators	Enclosure	Extended Service Options	
Output voltage □ 208V □ 2400V □ 220V □ 4160V □ 240V □ 12470V □ 380V □ 13200V □ 440V □ 13800V □ 480V □ 600V Temperature Rise (over 40°C ambient)	 □ Weather protective □ Sound attenuated Attachments □ Cold weather bundle □ DC lighting package □ AC lighting package □ Motorized louvers Fuel System Pressure 	Terms 2 year 3 year 10 year Coverage Silver Gold Platinum	
□ 150°C	☐ Standard ☐ Low	☐ Platinum Plus	
□ 125°C/130°C □ 105°C		Ancillary Equipment	
□ 80°C	Control System	 □ Automatic transfer switch (ATS) □ Uninterruptible power supply (UPS) □ Paralleling switchgear 	
Winding type ☐ Random wound ☐ Form wound	Controller □ EMCP 4.2 □ EMCP 4.3 □ EMCP 4.4		
Excitation	Attachments	☐ Paralleling controls	
☐ Permanent magnet (PM)	☐ Local annunciator module	Certifications	
Attachments□ Anti-condensation heater□ Stator and bearing temperature monitoring and protection	□ Remote annunciator module□ Load share module□ Remote monitoring software	 □ UL 2200 Listed □ CSA Certified □ EU Declaration of Conformity □ EEC Declaration of Conformity 	

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

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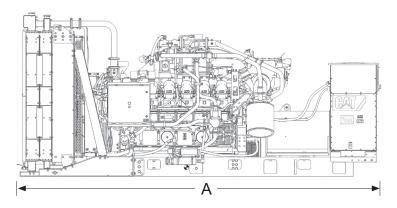
Package Performance

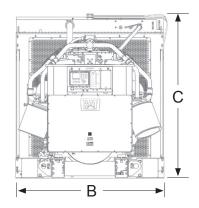
Performance	Star	ndby
Frequency	60	Hz
Genset power rating @ 0.8 power factor – ekW (kVA)	750	(937)
Emissions	U.S. EPA Statio	nary Emergency
Performance number	EM15	508-00
Fuel Consumption		
100% load with fan – MJ/ekW-hr (Btu/ekW-hr)	10.87	(10312)
75% load with fan - MJ/ekW-hr (Btu/ekW-hr)	11.56	(10948)
50% load with fan – MJ/ekW-hr (Btu/ekW-hr)	13.12	(12422)
Cooling System		
Radiator air flow restriction – kPa (in. water)	.12	(.5)
Radiator air flow – m³/min (cfm)	1830	(64625)
Radiator ambient capability @ 304 m (1000 ft) – °C (°F)	45	(113)
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 (0°C, 101.3 kPa)/(77°F, 14.7 psia) – m³/min (cfm)	62.19	(2397)
Altitude Capability		
At 25°C (77°F) ambient, above sea level – m (ft)	2647	(9055)
Exhaust System		
Exhaust temperature – engine outlet – °C (°F)	536	(997)
Air flow (0°C, 101.3 kPa)/(77°F, 14.7 psia) – Nm³/bkW-hr (ft³/min)	4.49	(2397)
Exhaust Gas Mass Flow – kg/bkW-hr (lb/hr)	6.02	(11026)
Heat Rejection		
Heat rejection to jacket water – kW (Btu/min)	370	(21063)
Heat rejection to exhaust (LHV to 120°C/248°F) – kW (Btu/min)	654	(37210)
Heat rejection to auxiliary circuit – kW (Btu/min)	68	(3870)
Heat rejection to atmosphere from engine and generator – kW (Btu/min)	132	(8908)
Regulatory Information		
EPA – S.I. Stationary Emergency	U.S. (excludes	California) 2011

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Weights and Dimensions





Dim "A"	Dim "B"	Dim "C"	Dry Weight
mm (in)	mm (in)	mm (in)	kg (lb)
5224 (205.7)	2286 (90.0)	2525 (99.4)	

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.

Applicable Codes and Standards

AS 1359, CSA C22.2 No. 100-04, UL 489, UL 869, UL 2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC 60034-1, ISO 3046, ISO 8528, NEMA MG1-22, NEMA MG1-33, 2014/35/EU, 2006/42/EC, 2014/30/EU.

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.
- 2. 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.
- 3. For a complete reference of definitions and conditions see datasheet EM1508.

http://www.cat.com/powergeneration

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