



Bore – mm (in)	170 (6.7)		
Stroke – mm (in)	190 (7.5)		
Displacement – L (in ³)	52 (3173)		
Compression Ratio	9.7		
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)	Emissions Performance	
1000 (1250)	NOx Selectable (0.5 to 2.0 g/bhp-hr)	
750 (938)	NOx Selectable (0.5 to 2.0 g/bhp-hr)	

Standard Features

Cat® Natural Gas 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
- Twelve cylinder design to optimize transient performance

Generator Set Package

- Accepts 100% block load in one step
- Designed to meet NFPA 110, Type 10 starting and loading requirements
- Conforms to ISO 8528-5 G3 load acceptance and steady state 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 coverage 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



Engine

Air Cleaner (Single Element)
Installed
Supplied loose

Muffler

Industrial grade (15 dB)
 Residential grade (18 dB)
 Critical grade (25 dB)
 Spark arresting

Starting

Standard batteries
 Standard electric starter(s)
 Air starter(s)
 Jacket water heater

Generators

Output voltage

□ 208∨
□ 2400∨
□ 220∨
□ 4160∨
□ 240∨
□ 12470∨
□ 380∨
□ 13200∨
□ 440∨
□ 13800∨
□ 480∨
□ 600∨

Temperature Rise

(over 40°C ambient) □ 150°C □ 125°C/130°C □ 105°C □ 80°C

Winding type

Random wound

Form wound

Excitation

Permanent magnet (PM)

Attachments

- □ Anti-condensation heater
- Stator and bearing temperature monitoring and protection

Power Termination

Туре

Bus bar
Circuit breaker
400A 3800A
1200A 1600A
2000A 2500A
3200A 4000A
UL 1EC
3-pole 4-pole
Manually operated

Electrically operated

Trip Unit

LSI LSI-G LSIG-P

Enclosure

Weather protectiveSound attenuated

Attachments

Cold weather bundle
 DC lighting package
 AC lighting package
 Motorized louvers

Fuel System Pressure

StandardLow

Control System

Controller EMCP 4.3 EMCP 4.4

Attachments

- Local annunciator module
- Remote annunciator module
- □ Load share module
- Remote monitoring software

Charging

Battery charger – 20A
 Battery charger – 35A
 Battery charger – 50A

Vibration Isolators

Rubber
 Spring
 Seismic rated

Cat Connect

Connectivity

Extended Service Options

Terms

- □ 2 year
 □ 3 year
 □ 5 year
- □ 10 year

Coverage

- Silver
- Gold
- Platinum
- Platinum Plus

Ancillary Equipment

- Automatic transfer switch (ATS)
- Uninterruptible power supply (UPS)
- Paralleling switchgear
- □ Paralleling controls

Certifications

□ UL 2200 Listed □ CSA Certified

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



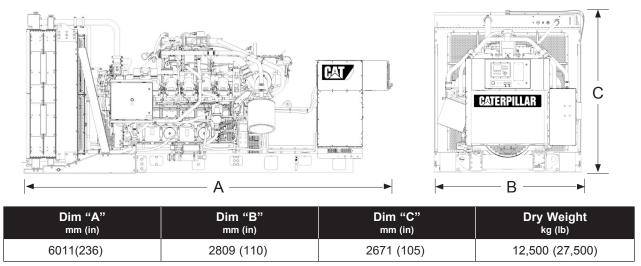


Package Performance

Performance	Standby & Continuous			
Frequency	60 Hz			
Genset power rating @ 0.8 power factor – ekW (kVA)	750 (938)		1000 (1250)	
Emissions	2 g/bhp-		hr NOx	
Performance number	EM2091-01		EM1622-02	
Fuel Consumption				
100% load with fan – MJ/ekW-hr (Btu/ekW-hr)	10.57	(10025)	10.05	(9526)
75% load with fan – MJ/ekW-hr (Btu/ekW-hr)	11.39	(10799)	10.52	(9971)
50% load with fan – MJ/ekW-hr (Btu/ekW-hr)	12.96	(12287)	11.57	(10970)
Cooling System				
Radiator air flow restriction – kPa (in. water)	0.12	(0.5)	0.12	(0.5)
Radiator air flow – m³/min (cfm)	1830	(64625)	1830	(64625)
Radiator ambient capability @ 304 m (1000 ft) - °C (°F)	45	(113)	45	(113)
Auxiliary circuit temperature (maximum inlet) – °C (°F)	54	(130)	54	(130)
Jacket water temperature (maximum outlet) – °C (°F)	99	(210)	99	(210)
Inlet Air				
Combustion air inlet flow rate – Nm³/bkW-hr (ft3/min)	4.38	(2339)	4.18	(2941)
Altitude Capability		·	·	·
At 25°C (77°F) ambient, above sea level – m (ft)	2910	(9547)	2025	(6644)
Exhaust System				
Exhaust temperature – engine outlet – °C (°F)	513	(956)	508	(947)
Exhaust Gas Flow – Nm³/bkW-hr (ft³/min)	4.67	(6657)	4.45	(8320)
Exhaust Gas Mass Flow – kg/bkW-hr (lb/hr)	5.87	(10757)	5.60	(13527)
Heat Rejection		·	·	·
Heat rejection to jacket water circuit (JW+AC1+OC) – kW (Btu/min)	486	(27927)	600	(34126)
Heat rejection to jacket water – kW (Btu/min)	365	(27668)	422	(24010)
Heat rejection to exhaust (LHV to 120°C/248°F) – kW (Btu/min)	602	(34230)	748	(42513)
Heat rejection to auxiliary circuit temperature – kW (Btu/min)	65	(3671)	93	(5272)
Heat rejection to atmosphere from engine and generator – kW (Btu/min)	126	(7185)	151	(8605)



Weights and Dimensions



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, 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

- 1. 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.
- 3. For a complete reference of definitions and conditions see the following datasheets
 - a. 750ekw Standby

EM2091 w/fan - 2 g/bhp-hr NOx EM2093 w/fan - 1 g/bhp-hr NOx EM2095 w/fan - 0.5 g/bhp-hr NOx EM2092 w/o fan - 2 g/bhp-hr NOx EM2094 w/o fan - 1 g/bhp-hr NOx EM2096 w/o fan - 0.5 g/bhp-hr NOx

b. 1000ekw Standby

EM1622 w/fan - 2 g/bhp-hr NOx EM2089 w/fan - 1 g/bhp-hr NOx EM2087 w/fan - 0.5 g/bhp-hr NOx EM1623 w/o fan - 2 g/bhp-hr NOx EM2090 w/o fan - 1 g/bhp-hr NOx EM2088 w/o fan - 0.5 g/bhp-hr NOx

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

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