



Bore – mm (in)	170 (6.7)	
Stroke – mm (in)	215 (8.5)	
Displacement – L (in ³)	97.6 (5956)	
Aspiration	Turbocharged	
Fuel System	Electronic Fuel Control Valve	
Governor Type	ADEM™ A6	

Image shown may not reflect actual configuration.

	Fuel Type	ekW (kVA)	Compression Ratio	Engine Speed – rpm
High Response without Pumps	Natural Gas	2552 (3145)	10.5	1500
High Response with Pumps	Natural Gas	2536 (3125)	10.5	1500
High Efficiency without Pumps	Natural Gas	2552 (3145)	11.0	1500
High Efficiency with Pumps	Natural Gas	2536 (3125)	11.0	1500

Standard Features

Cat[®] Engine

- Robust high speed block design provides prolonged life and lower owning and operating costs
- High power density and efficiency

Generator Set Package

- Top tier electrical efficiency
- Lower maintenance and overhaul costs driven by lower oil consumption, extended service intervals, and reduced downtime
- Capable of ISO 8528-5 Class G1 & G2 transient performance with specified load steps
- Genset reliability verified through torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing

Generators

- High-efficiency design
- Designed to match performance and output characteristics of Cat engines

Applications

- Caterpillar generator sets can maximize power production opportunities in an extensive range of industries
- Improved thermal efficiency with lower jacket water temperature Refer to LEHE22853

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

- 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 postsale 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



Standard and Optional Equipment

Engine

Air Cleaner

Installed

□ Supplied loose with 0-, 45-, or 90-degree hump hose

Cooling System

□ JW & SCAC engine driven pumps No pumps option RH or LH JW out connection

Exhaust System

- Elbows
- Expanders
- Flanges
- Flexible fittings

Fuel System

Gas train pressure sensors Gas knockdown regulator Natural Gas Supply Gas Train (EU or NFPA/CSA Version) DN125 Elbow

General

Barring group

Lubrication

- Lubricating oil (NGEO or SYN HP)
- Oil level regulator
- Electric prelube

Mufflers

- □ Industrial Grade (15 dB) □ Residential Grade (18 dB)
- □ Critical Grade (25 dB)
- Spark Arresting

Protection System

Explosion Relief Valves

Starting/Charging

- Charging alternator 60 A
- Battery charger 20 A
- Oversized batteries
- Battery cables / racks
- □ Jacket water heater

Generators

Output voltage □ 480 V **G** 600 V **4160 V** □ 6300 V 🛛 6600 V □ 6900 V □ 12400 V □ 13200 V 🛛 13800 V

Temperature Rise (over 40 °C ambient) □ 105 °C

Attachments

□ Anti-condensation heater Generator RTD module Neutral Ground - LV Cross-Current CT - HV Differential CTs - HV PTs – HV

Power Termination

Type

IEC Bus bar - LV NEMA Bus Bar - LV □ Circuit breaker – LV

Circuit Breaker Options

D 5000 A 🗆 UL 3-pole

Electrically operated

Trip Unit Options

LSI LSI-G LSIG-P

Cat Connect

Connectivity Ethernet

Cellular

Control System

Controller Cat ECS 100 Cat ECS 200

Attachments

Load share module DIO Modules CAN2 Wiring Remote monitoring software

Vibration Isolators

Spring Seismic rated

Certifications

2CSA UL 2200

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



60 Hz High Response Package Performance

Performance		Continuous			
equency		60 Hz		60 Hz	
Genset power rating @ 1.0 power factor – ekW (kVA)	2552	(3145)	2552	(3145)	
Engine Speed – rpm	1:	1500		1500	
Compression ratio	1	10.5		10.5	
NOx Emission Level – mg/Nm ³ (g/bhp-hr) NOx	246	(0.50)	504	(1.00)	
Performance number	EM72	EM7208-00		EM7206-00	
Genset Electrical Efficiency (@ 1.0 power factor)	4	44.9 %		15.8 %	
Fuel Consumption					
100% load with fan – MJ/ekW-hr (Btu/ekW-hr)	8.14	(7655)	7.97	(7556)	
75% load with fan – MJ/ekW-hr (Btu/ekW-hr)	8.29	(7737)	8.13	(7707)	
50% load with fan – MJ/ekW-hr (Btu/ekW-hr)	8.91	(8149)	8.73	(8279)	
Cooling System					
Auxiliary Circuit temperature (maximum inlet) – °C (°F)	57	(134)	57	(134)	
Jacket water temperature (maximum outlet) – °C (°F)	99	(210)	99	(210)	
Inlet Air					
Combustion air inlet flow rate (0°C, 101.3 kPa)/(77°F, 14.7 psia) – Nm³/bkW-hr (ft³/min)	3.89	(6593)	3.74	(6337)	
Altitude Capability					
At 25°C (77°F) ambient, above sea level – m (ft)	1080	(3543)	1310	(4298)	
Exhaust System					
Exhaust temperature – engine outlet – °C (°F)	397	(747)	397	(746)	
Exhaust gas flow (0°C, 101.3 kPa)/(77°F, 14.7 psia) – Nm³/bkW-hr (ft³/min)	4.13	(15912)	3.97	(15311	
Exhaust gas mass flow – kg/bkW-hr (lb/hr)	5.20	(30242)	5.01	(29087	
Heat Rejection					
Heat rejection to jacket water – kW (Btu/min)	562	(32942)	560	(32867	
Heat rejection to exhaust (LHV to 120°C/248°F) – kW (Btu/min)	1171	(66589)	1128	(64122	
Heat rejection to auxiliary circuit – kW (Btu/min)	128	(7271)	119	(6790)	
Heat rejection to atmosphere from engine and generator – kW (Btu/min)	189	(10408)	183	(10037	
Heat rejection to jacket water circuit (JW+OC+AC1) – kW (Btu/min)	1411	(80231)	1372	(78006	



60 Hz High Efficiency Package Performance

Performance		Conti	nuous		
requency		60 Hz		60 Hz	
Genset power rating @ 1.0 power factor – ekW (kVA)	2552	(3145)	2552	(3145)	
Engine Speed – rpm	1:	1500		1500	
Compression ratio	1	11.0		11.0	
NOx Emission Level – mg/Nm ³ (g/bhp-hr) NOx	246	(0.50)	504	(1.00)	
Performance number	EM72	EM7204-00		EM7202-00	
Genset Electrical Efficiency (@ 1.0 power factor)	4	45.3 %		6.3 %	
Fuel Consumption					
100% load with fan – MJ/ekW-hr (Btu/ekW-hr)	8.06	(7638)	7.88	(7474)	
75% load with fan – MJ/ekW-hr (Btu/ekW-hr)	8.30	(7867)	8.09	(7668)	
50% load with fan – MJ/ekW-hr (Btu/ekW-hr)	9.18	(8701)	8.99	(8526)	
Cooling System					
Auxiliary Circuit temperature (maximum inlet) – °C (°F)	53	(127)	53	(127)	
Jacket water temperature (maximum outlet) – °C (°F)	99	(210)	99	(210)	
Inlet Air					
Combustion air inlet flow rate (0°C, 101.3 kPa)/(77°F, 14.7 psia) – Nm³/bkW-hr (ft³/min)	3.86	(6537)	3.71	(6275)	
Altitude Capability					
At 25°C (77°F) ambient, above sea level – m (ft)	655	(2149)	935	(3068)	
Exhaust System					
Exhaust temperature – engine outlet – °C (°F)	372	(701)	373	(703)	
Exhaust gas flow (0°C, 101.3 kPa)/(77°F, 14.7 psia) – Nm³/bkW-hr (ft³/min)	4.09	(15192)	3.93	(14618	
Exhaust gas mass flow – kg/bkW-hr (lb/hr)	5.16	(29985)	4.96	(28803	
Heat Rejection					
Heat rejection to jacket water – kW (Btu/min)	549	(31239)	551	(31343	
Heat rejection to exhaust (LHV to 120°C/248°F) – kW (Btu/min)	1054	(59946)	1017	(57830	
Heat rejection to auxiliary circuit – kW (Btu/min)	114	(6473)	109	(6218)	
Heat rejection to atmosphere from engine and generator – kW (Btu/min)	183	(10072)	173	(9503)	
Heat rejection to jacket water circuit (JW+OC+AC1) – kW (Btu/min)	1480	(84176)	1431	(81358	



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

Continuous Power Rating

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

Applicable Codes and Standards

AS 1359, CSA C22.2 No. 100-04, UL 142, 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.
- 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 the following data sheets

60 Hz 2552 ekW Continuous / Standard

EM7206-00 (1.0 g/bhp-hr NOx) – High Response (w/o Pumps) EM7208-00 (0.5 g/bhp-hr NOx) – High Response (w/o Pumps) EM7202-00 (1.0 g/bhp-hr NOx) – High Efficiency (w/o Pumps) EM7204-00 (0.5 g/bhp-hr NOx) – High Efficiency (w/o Pumps)

60 Hz 2536 ekW Continuous / Standard

EM7207-00 (1.0 g/bhp-hr NOx) – High Response (w/ Pumps) EM7209-00 (0.5 g/bhp-hr NOx) – High Response (w/ Pumps) EM7203-00 (1.0 g/bhp-hr NOx) – High Efficiency (w/ Pumps) EM7205-00 (0.5 g/bhp-hr NOx) – High Efficiency (w/ Pumps)

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