



Image shown may not reflect actual configuration

Bore – mm (in)	170 (6.69)			
Stroke – mm (in)	190 (7.48)			
Displacement – L (in ³)	69 (4210.64)			
Compression Ratio	13.0:1			
Aspiration	TA			
Fuel System	MUI			
Governor Type	Mechanical			

Standby 50 Hz kVA (ekW)	Mission Critical 50 Hz kVA (ekW)	Prime 50 Hz kVA (ekW)	Continuous 50 Hz kVA (ekW)	Emissions Performance	
2000 (1600)	2000 (1600)	1825 (1460)	1600 (1280)	Optimized for Low Fuel Consumption	

Standard Features

Cat® Diesel Engine

- · Designed and optimized for low fuel consumption
- Reliable performance proven in thousands of applications worldwide

Generator Set Package

- Accepts 100% block load in one step and meets other NFPA 110 loading requirements
- Conforms to ISO 8528-5 G3 load acceptance requirements
- Reliability verified through torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing

Alternators

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

Cooling System

- · Cooling systems available to operate in ambient temperatures up to 50°C (122°F)
- Tested to ensure proper generator set cooling

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 and mission critical ratings
- 12 months/unlimited hour warranty for prime and 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

Optional Equipment

Engine

Air Cleaner

Single element
Dual element
Heavy duty

Muffler

□ Industrial grade (15 dB)

Starting

Standard batteries
Oversized batteries
Standard electric starter(s)
Heavy duty electric starter(s)
Air starter(s)
Jacket water heater

Alternator

Output voltage

 □ 380∨
 □ 6600∨

 □ 400∨
 □ 6900∨

 □ 415∨
 □ 10000∨

 □ 3300∨
 □ 10500∨

 □ 6300∨
 □ 11000∨

Temperature Rise

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

Winding type

Random woundForm wound

Excitation

Internal excitation (IE)
 Permanent magnet (PM)

Attachments

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

Power Termination

Туре

Bus bar
 Circuit breaker
 1600A 3200A
 2000A 4000A
 2500A 5000A
 3000A
 UL IEC
 3-pole 4-pole
 Manually operated
 Electrically operated

Trip Unit

□ LSI □ LSI-G □ LSIG-P

Control System

Controller

EMCP 4.2
EMCP 4.3
EMCP 4.4

Attachments

Local annunciator module
 Remote annunciator module
 Expansion I/O module
 Remote monitoring software

Charging

Battery charger – 10A
 Battery charger – 20A
 Battery charger – 35A

Vibration Isolators

RubberSpringSeismic rated

Extended Service Options

Terms

2 year (prime)
 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

- □ IBC seismic certification
- EU Certification of
- Conformance (CE)
- 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.



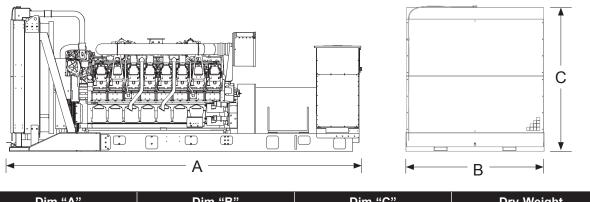


Package Performance

Performance	Sta	andby	Missio	n Critical	P	rime	Cont	inuous	
Frequency) Hz	50) Hz	50) Hz	50) Hz	
Gen set power rating with fan	160	0 ekW	160	0 ekW	146	0 ekW	1280) ekW	
Gen set power rating with fan @ 0.8 power factor	200	0 kVA	2000 kVA		1825 kVA		1600 kVA		
Emissions	Lov	Low Fuel		Low Fuel		Low Fuel		Low Fuel	
Performance number	DM7	961-03	EM0	609-01	DM7	962-01	DM7	963-02	
Fuel Consumption	·								
100% load with fan – L/hr (gal/hr)	419.1	(110.7)	419.1	(110.7)	382.7	(101.1)	337.0	(89.0)	
75% load with fan – L/hr (gal/hr)	315.8	(83.4)	315.8	(83.4)	292.1	(77.2)	260.6	(68.8)	
50% load with fan – L/hr (gal/hr)	224.5	(59.3)	224.5	(59.3)	209.2	(55.3)	187.5	(49.5)	
25% load with fan – L/hr (gal/hr)	130.5	(34.5)	130.5	(34.5)	123.5	(32.6)	112.6	(29.7)	
Cooling System	·								
Radiator air flow restriction (system) – kPa (in. water)	0.12	(0.48)	0.12	(0.48)	0.12	(0.48)	0.12	(0.48)	
Radiator air flow – m³/min (cfm)	1946	(68722)	1946	(68722)	1946	(68722)	1946	(68722)	
Engine coolant capacity – L (gal)	233	(61.6)	233	(61.6)	233	(61.6)	233	(61.6)	
Radiator coolant capacity – L (gal)	144	(38.0)	144	(38.0)	144	(38.0)	144	(38.0)	
Total coolant capacity – L (gal)	377	(99.6)	377	(99.6)	377	(99.6)	377	(99.6)	
Inlet Air									
Combustion air inlet flow rate – m ³ /min (cfm)	124.5	(4396.2)	124.5	(4396.2)	115.7	(4085.5)	104.5	(61.6)	
Exhaust System									
Exhaust stack gas temperature – °C (°F)	490.3	(914.5)	490.3	(914.5)	477.6	(891.7)	464.5	(868.1)	
Exhaust gas flow rate – m³/min (cfm)	333.0	(11758.4)	333.0	(11758.4)	304.2	(10741.6)	270.3	(9544.6)	
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(27.0)	6.7	(27.0)	6.7	(27.0)	6.7	(27.0)	
Heat Rejection									
Heat rejection to jacket water – kW (Btu/min)	1051	(59769)	1051	(59769)	961	(54651)	848	(48226)	
Heat rejection to exhaust (total) – kW (Btu/min)	1527	(86838)	1527	(86838)	1380	(78480)	1206	(68585)	
Heat rejection to aftercooler – kW (Btu/min)	234	(13307)	234	(13307)	191	(10862)	137	(7791)	
Heat rejection to atmosphere from engine – kW (Btu/min)	116	(9440)	116	(9440)	159	(9042)	149	(8474)	
Heat rejection from alternator – kW (Btu/min)	77	(4385)	77	(4385)	69	(3913)	60	(3429)	
Emissions (Nominal)									
NOx mg/Nm ³ (g/hp-h)	6743.6	(14.17)	6743.6	(14.17)	7168.2	(14.99)	7553.0	(15.80)	
CO mg/Nm ³ (g/hp-h)	354.7	(0.74)	354.7	(0.74)	328.6	(0.69)	359.8	(0.75)	
HC mg/Nm ³ (g/hp-h)	104.2	(0.22)	104.2	(0.22)	95.7	(0.20)	86.9	(0.18)	
PM mg/Nm ³ (g/hp-h)	34.1	(0.07)	34.1	(0.07)	34.7	(0.07)	35.5	(0.07)	
Emissions (Potential Site Variation)									
NOx mg/Nm ³ (g/hp-h)	8092.3	(17.00)	8092.3	(17.00)	8601.8	(17.98)	9063.6	(18.96)	
CO mg/Nm ³ (g/hp-h)	638.5	(1.34)	638.5	(1.34)	591.5	(1.24)	647.6	(1.35)	
HC mg/Nm ³ (g/hp-h)	138.6	(0.29)	138.6	(0.29)	127.3	(0.27)	115.6	(0.24)	
PM mg/Nm ³ (g/hp-h)	47.7	(0.10)	47.7	(0.10)	48.6	(0.10)	49.7	(0.10)	



Weights and Dimensions



Dim "A"	Dim "B"	Dim "C"	Dry Weight
mm (in)	mm (in)	mm (in)	^{kg (lb)}
5913.5 (232.82)	2286.0 (90.00)	2409.9 (94.88)	

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 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.

Mission Critical

Output available with varying load for the duration of the interruption of the normal source power. Average power output is 85% of the mission critical power rating. Typical peak demand up to 100% of rated power for up to 5% of the operating time. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

Prime

Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime rated ekW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year.

Continuous

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 kW for 100% of the operating hours.

Applicable Codes and Standards

AS1359, CSA C22.2 No100-04, UL142, UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO3046, ISO8528, 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.

Data Center Applications

Tier III/Tier IV compliant per Uptime Institute requirements. ANSI/TIA-942 compliant for Rated-1 through Rated-4 data centers.

Fuel Rates

Fuel rates are based on fuel oil of 35° API [16°C (60°F)] gravity having an LHV of 42,780 kJ/kg (18,390 Btu/lb) when used at 29°C (85°F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal.)

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