





Bore – mm (in)	170 (6.69)	
Stroke – mm (in)	190 (7.48)	
Displacement – L (in ³)	69 (4210.64)	
Compression Ratio	13.5:1	
Aspiration	TA	
Fuel System	MUI	
Governor Type	Mechanical	

Image shown may not reflect actual configuration

Prime-DCP 60 Hz ekW (kVA)	Emissions Performance
1600 (2000)	Optimized for Low Fuel Consumption

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 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

- 12 months/unlimited hour warranty for prime-DCP 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



Standard and Optional Equipment

Engine

Air Cleaner

Single element
 Dual element

Heavy duty

Muffler

Industrial grade (15 dB)
 Residential grade (25 dB)
 Critical grade (35 dB)

Starting

- Standard batteries
- Oversized batteries
- □ Standard electric starter(s)
- Dual electric starter(s)
- Jacket water heater

Alternator

Output voltage

 □ 380∨
 □ 6900∨

 □ 400∨
 □ 10000∨

 □ 415∨
 □ 10500∨

 □ 6300∨
 □ 11000∨

 □ 6600∨

Temperature Rise (over 40°C ambient)

- □ 150°C □ 125°C/130°C
- □ 105°C □ 80°C

Winding type

Random wound
Form 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
2000A 3200A
2500A 4000A
IEC
3-pole
Electrically operated

Trip Unit

LSI LSI-G LSIG-P

Control System

Controller

EMCP 4.2B
 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

Rubber
Spring
Seismic rated

Cat Connect

Connectivity

❑ Ethernet
❑ Cellular

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)
 Paralleling switchgear
 Paralleling controls

Certifications

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



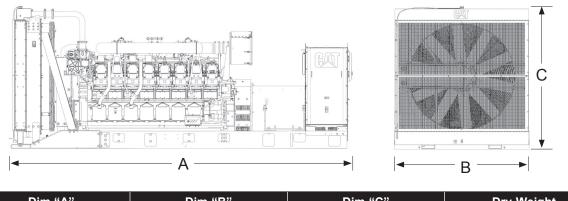
Package Performance

Prim	e-DCP
60 Hz	
160) ekW
200	0 kVA
Low	/ Fuel
EM5	999-00
423.6	(111.9)
327.0	(86.4)
231.2	(61.1)
136.0	(35.9)
0.12	(0.48)
1365	(48204)
233.0	(61.6)
144.0	(38.0)
377.0	(99.6)
150.1	(5300.2)
505.4	(941.7)
408.3	(14417.4)
6.7	(27.0)
954	(54253)
1850	(105208)
268	(15241)
140	(7962)
77	(4383)
4286.0	(10.24)
572.5	(1.37)
52.7	(0.13)
66.6	(0.16)
66.6	(0.16)
66.6 5143.2	(0.16) (12.28)
5143.2	(12.28)
	2000 Low EM55 327.0 231.2 136.0 231.2 136.0 136.0 136.0 1365 233.0 144.0 377.0 377.0 150.1

*mg/Nm³ levels are corrected to 5% O₂. Contact your local Cat dealer for further information.



Weights and Dimensions



mm (in)	mm (in)	mm (in)	kg (lb)
5953 (234.4)	2286 (90.0)	2410 (94.9)	13 080 (28,840)

Note: For reference only. Do not use for installation design. Contact your local Cat dealer for precise weights and dimensions.

Ratings Definitions

Prime-DCP

For data center applications only. Prime-DCP power output available with varying load for unlimited time. Average power output is not to exceed 100% of prime-DCP rated ekW. Typical peak demand is 100% of the prime-DCP 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.

Applicable Codes and Standards

AS 1359, CSA C22.2 No. 100-04, UL 142, UL 489, UL 869, UL 2200, IBC, 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.

Data Center Applications

- ISO 8528-1 Data Center Power (DCP) compliant per Cat diesel generator set prime-DCP rating.
- All ratings Tier III/Tier IV compliant per Uptime Institute requirements.
- All ratings ANSI/TIA-942 compliant for Rated-1 through Rated-4 data centers.

Fuel Rates

Fuel consumption reported in accordance with ISO 3046-1, 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 15°C (59° F) and weighing 850 g/liter (7.0936 lbs/U.S. gal.) All fuel consumption values refer to rated engine power.

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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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