





Bore – mm (in)	137.2 (5.4)				
Stroke – mm (in)	152.4 (6.0)				
Displacement – L (in ³)	27.03 (1649.47)				
Compression Ratio	16.5:1				
Aspiration	ТА				
Fuel System	MEUI				
Governor Type	ADEM™ A4				

Image shown may not reflect actual configuration

Standby	Prime	Standby	Prime	Emissions Performance
60 Hz ekW (kVA)				
750 (937)	680 (850)	800 (1000)	725 (906)	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 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



Engine

Air Cleaner

Single element
Dual element
Heavy duty

Muffler

□ Residential grade (25 dB)

Starting

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

Alternator

Output voltage

□ 208∨
□ 240∨
□ 480∨
□ 600∨

Temperature Rise

(over 40°C ambient)

□ 150°C
□ 125°C
□ 105°C
□ 80°C

Winding type

Random wound

Excitation

□ Internal excitation (IE)

Attachments

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

Power Termination

Туре

Bus bar
 Circuit breaker
 400A
 800A
 1200A
 1600A
 2000A
 2500A
 3000A
 UL
 IEC
 3-pole
 4-pole
 Manually operated
 Electrically operated

Trip Unit

LSI LSI-G LSIG-P

Factory Enclosure

Sound attenuated

Attachments

Cold weather bundle
 DC lighting package
 Motorized louvers

Fuel Tank

□ 1000 gal (3785 L) □ 2000 gal (7571 L) □ 3600 gal (13627 L)

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 – 30A

Vibration Isolators

Rubber
Spring
Seismic rated

Cat Connect

Connectivity

EthernetCellularSatellite

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

UL 2200 Listed
 CSA
 IBC seismic certification
 OSHPD pre-approval

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





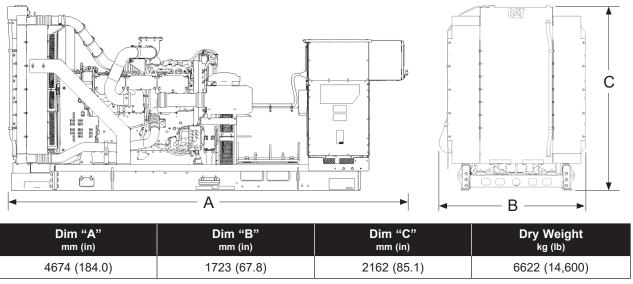
Package Performance

Performance	Standby		Prime		Standby		Prime	
Frequency	60 Hz		60 Hz		60 Hz		60 Hz	
Gen set power rating with fan	750 ekW		680 ekW		800 ekW		725 ekW	
Gen set power rating with fan @ 0.8 power factor	937 kVA		850 kVA		1000 kVA		906 kVA	
Emissions	Low Fuel		Low Fuel		Low Fuel		Low Fuel	
Performance number	DM9072-01		DM9074-02		DM9068-01		DM9070-02	
Fuel Consumption			1				1	
100% load with fan – L/hr (gal/hr)	200.3	(52.9)	183.1	(48.4)	213.3	(56.3)	196.2	(51.8)
75% load with fan – L/hr (gal/hr)	154.4	(40.8)	141.6	(37.4)	164.6	(43.5)	150.4	(39.7)
50% load with fan – L/hr (gal/hr)	111.2	(29.4)	102.9	(27.2)	117.3	(31.0)	108.3	(28.6)
25% load with fan – L/hr (gal/hr)	69.1	(18.3)	64.8	(17.1)	72.0	(19.0)	67.5	(17.8)
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)	1200	(42377)	1200	(42377)	1200	(42377)	1200	(42377)
Engine coolant capacity – L (gal)	55.0	(14.5)	55.0	(14.5)	55.0	(14.5)	55.0	(14.5)
Radiator coolant capacity – L (gal)	41.0	(10.0)	41.0	(10.0)	41.0	(10.0)	41.0	(10.0)
Total coolant capacity – L (gal)	96.0	(24.5)	96.0	(24.5)	96.0	(24.5)	96.0	(24.5)
Inlet Air								
Combustion air inlet flow rate – m³/min (cfm)	55.0	(1942.9)	52.0	(1835.4)	58.2	(2055.3)	56.2	(1984.1
Exhaust System				· · · ·				
Exhaust stack gas temperature – °C (°F)	515.9	(960.6)	503.0	(937.4)	523.6	(974.4)	506.5	(943.6)
Exhaust gas flow rate – m³/min (cfm)	150.2	(5303.8)	139.0	(4907.9)	160.3	(5661.7)	151.6	(5351.4
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)	334	(19012)	316	(17959)	350	(19909)	330	(18760)
Heat rejection to exhaust (total) – kW (Btu/min)	713	(40526)	651	(37011)	765	(43510)	708	(40287)
Heat rejection to aftercooler – kW (Btu/min)	121	(6855)	105	(5998)	140	(7966)	129	(7319)
Heat rejection to atmosphere from engine – kW (Btu/min)	109	(6208)	96	(5477)	105	(5950)	93	(5285)
Heat rejection from alternator – kW (Btu/min)	47	(2673)	41	(2337)	57	(3213)	50	(2866)
Emissions* (Nominal)								
NOx mg/Nm³ (g/hp-h)	3359.5	(6.74)	3178.9	(6.37)	3371.2	(6.20)	2847.5	(5.71)
CO mg/Nm ³ (g/hp-h)	119.8	(0.24)	118.0	(0.23)	137.1	(0.25)	120.2	(0.24)
HC mg/Nm ³ (g/hp-h)	6.9	(0.02)	8.7	(0.02)	7.7	(0.02)	9.4	(0.02)
PM mg/Nm ³ (g/hp-h)	7.7	(0.02)	7.5	(0.02)	5.0	(0.01)	4.4	(0.01)
Emissions* (Potential Site Variation)								
NOx mg/Nm ³ (g/hp-h)	4065.0	(8.15)	3846.5	(7.71)	4079.2	(7.51)	3445.5	(6.91)
CO mg/Nm ³ (g/hp-h)	224.0	(0.45)	220.6	(0.44)	256.4	(0.48)	224.8	(0.45)
HC mg/Nm ³ (g/hp-h)	13.0	(0.03)	16.5	(0.04)	14.6	(0.03)	17.7	(0.04)
PM mg/Nm ³ (g/hp-h)	15.0	(0.04)	14.7	(0.04)	9.8	(0.02)	8.7	(0.02)

 $^{*}mg/Nm^{3}$ levels are corrected to 5% O₂. Contact your local Cat dealer for further information.



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 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.

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.

Applicable Codes and Standards

AS 1359, CSA C22.2 No. 100-04, UL 142, UL 489, UL 869, UL 2200, NFPA 37, NFPA 70, NFPA 99, NFPA 110, 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.

Data Center Applications

- ISO 8528-1 Data Center Power (DCP) compliant per DCP application of Cat diesel generator set prime power 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 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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Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication.

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