





Bore – mm (in)	145 (5.7)
Stroke – mm (in)	162 (6.4)
Displacement – L (in ³)	32 (1952.76)
Compression Ratio	15.0:1
Aspiration	ТА
Fuel System	EUI
Governor Type	ADEM™ A4

Image shown may not reflect actual configuration

Standby 60 Hz ekW (kVA)	Mission Critical 60 Hz ekW (kVA)	Prime 60 Hz ekW (kVA)	Continuous 60 Hz ekW (kVA)	Emissions Performance
1000 (1250)	1000 (1250)	910 (1137)	830 (1038)	Low Fuel Consumption

Standard Features

Cat® Diesel Engine

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

Generator Set Package

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

Alternators

- Superior motor starting capability minimizes the need for oversizing the generator
- Designed to match the 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

□ Industrial grade (15 dB)

Starting

Standard batteries
Oversized batteries
Standard electric starter
Dual duty electric starter
Jacket water heater

Alternator

Output voltage

□ 220V
□ 480V
□ 240V
□ 600V
□ 380V
□ 2400V
□ 400V
□ 4160V

Temperature Rise (over 40°C ambient)

□ 150°C
□ 125°C/130°C
□ 105°C
□ 80°C

Winding type

Random woundForm wound

Excitation

- Self excited
- Internal excitation (IE)
- Permanent magnet (PM)

Attachments

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

Power Termination

Туре

Bus bar Circuit breaker 🖵 400A **A008** □ 1600A □ 1200A **2000A** 2500A □ 3000A □ 3200A 3-pole □ 4-pole Manually operated □ Electrically operated

Trip Unit

LSI LSI-G LSIG-P

Factory Enclosure

Weather protective
 Sound attenuated

Attachments

Cold weather bundle
 DC lighting package
 AC lighting package
 Motorized louvers

Fuel Tank

Sub-base
 1000 gal (3875 L)
 2000 gal (7570 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

Vibration Isolators

RubberSpringSeismic rated

Cat Connect

Connectivity

Ethernet
 Cellular
 Satellite

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

- UL2200
- 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.



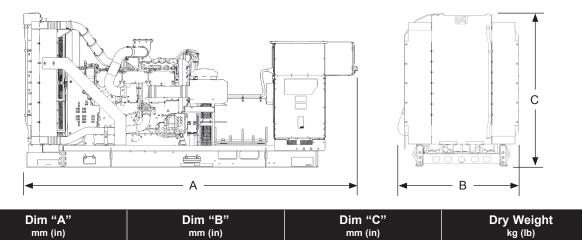


Package Performance

Performance	Sta	ndby	Missio	n Critical	Pr	ime	Cont	inuous
Frequency	60	Hz	60) Hz	60	Hz	60	Hz
Gen set power rating with fan	1000) ekW	1000) ekW	910	ekW	830	ekW
Gen set power rating with fan @ 0.8 power factor	1250) kVA	125	0 kVA	1138	3 kVA	103	3 kVA
Fueling strategy	Low	Fuel	Low	/ Fuel	Low	Fuel	Low	Fuel
Performance number	DM99	939-01	EM04	450-00	DM99	940-02	DM99	941-01
Fuel Consumption			1				1	
100% load with fan – L/hr (gal/hr)	262.7	(69.4)	262.7	(69.4)	238.6	(63.0)	217.9	(57.6)
75% load with fan – L/hr (gal/hr)	195.9	(51.7)	195.9	(51.7)	179.2	(47.3)	164.8	(43.5)
50% load with fan – L/hr (gal/hr)	135.9	(35.9)	135.9	(35.9)	125.8	(33.2)	117.2	(31.0)
25% load with fan – L/hr (gal/hr)	80.8	(21.3)	80.8	(21.3)	75.9	(20.0)	71.4	(18.9)
Cooling System			1					
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)	1175	(41494)	1175	(41494)	1175	(41494)	1175	(41494)
Engine coolant capacity – L (gal)	55	(14.5)	55	(14.5)	55	(14.5)	55	(14.5)
Radiator coolant capacity – L (gal)	36	(9.0)	36	(9.0)	36	(9.0)	36	(9.0)
Total coolant capacity – L (gal)	91	(23.5)	91	(23.5)	91	(23.5)	91	(23.5)
Inlet Air								
Combustion air inlet flow rate – m³/min (cfm)	82.6	(2915.6)	82.6	(2915.6)	77.8	(2746.7)	71.2	(2515.8)
Exhaust System								
Exhaust stack gas temperature – °C (°F)	473.4	(884.2)	473.4	(884.2)	456.1	(853.0)	452.0	(845.6)
Exhaust gas flow rate – m³/min (cfm)	214.7	(7582.8)	214.7	(7582.8)	196.0	(6922.5)	179.6	(6341.2)
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)	359	(20395)	359	(20395)	324	(18431)	305	(17363)
Heat rejection to exhaust (total) – kW (Btu/min)	965	(54857)	965	(54857)	866	(49230)	790	(44907)
Heat rejection to aftercooler – kW (Btu/min)	249	(14173)	249	(14173)	213	(12110)	172	(9774)
Heat rejection to atmosphere from engine – kW (Btu/min)	118	(6709)	118	(6709)	128	(7274)	130	(7370)
Heat rejection from alternator – kW (Btu/min)	55	(3131)	55	(3131)	50	(2846)	45	(2561)
Emissions (Nominal)								
NOx mg/Nm ³ (g/hp-h)	3009.7	(6.09)	3009.7	(6.09)	3019.6	(6.09)	3099.7	(6.26)
CO mg/Nm ³ (g/hp-h)	89.8	(0.18)	89.8	(0.18)	101.9	(0.21)	118.3	(0.24)
HC mg/Nm ³ (g/hp-h)	5.1	(0.01)	5.1	(0.01)	5.3	(0.01)	8.2	(0.02)
PM mg/Nm ³ (g/hp-h)	8.3	(0.02	8.3	(0.02	7.6	(0.02)	8.3	(0.02)
Emissions (Potential Site Variation)								
NOx mg/Nm ³ (g/hp-h)	3641.8	(7.73)	3641.8	(7.73)	3653.7	(7.37)	3750.6	(7.57)
CO mg/Nm ³ (g/hp-h)	168.0	(0.33	168.0	(0.33	190.6	(0.38)	221.3	(0.44)
HC mg/Nm ³ (g/hp-h)	9.7	(0.02)	9.7	(0.02)	10.0	(0.02)	15.5	(0.04)
PM mg/Nm ³ (g/hp-h)	16.2	(0.04)	16.2	(0.04)	14.8	(0.04)	16.2	(0.04)



Weights and Dimensions



4639 (182.6) 1684 (66.3) 2162 (85.1) 6668 (14.700)
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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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Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication.

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