



Image shown may not reflect actual configuration

Bore – mm (in)	175 (6.89)
Stroke – mm (in)	220 (8.66)
Displacement – L (in <sup>3</sup> )	105.8 (6456)
Compression Ratio	15.3:1
Aspiration	TA
Fuel System	Common Rail
Governor Type	ADEM™ A4

Prime-DCP 60 Hz ekW (kVA)	Emissions Performance
3180 (3975)	U.S. EPA Certified for Emergency Stationary Applications (Tier 2)

## Features

### Cat® Diesel Engine

- Meets U.S. EPA Stationary Emergency Use Only (Tier 2) emission standards
- Reliable performance proven in thousands of applications worldwide
- Certified alternative fuels including Hydrotreated Vegetable Oil (HVO), Renewable Diesel (RD) and Hydrotreated Renewable Diesel (HRD) which meet EN 15940 or ASTM D975 can be used or blended with EN 590 diesel

### Generator Set Package

- Accepts 100% block load in one step
- 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

### 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 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	Power Termination	Vibration Isolators
<b>Air Cleaner</b>	<b>Type</b>	
<input type="checkbox"/> Single element	<input type="checkbox"/> Bus bar	<input type="checkbox"/> Rubber
<b>Muffler</b>	<input type="checkbox"/> Circuit breaker	<input type="checkbox"/> Spring
<input type="checkbox"/> Industrial grade (15 dB)	<input type="checkbox"/> 4000A <input type="checkbox"/> 5000A	<input type="checkbox"/> Seismic rated
<input type="checkbox"/> Residential grade (25 dB)	<input type="checkbox"/> 6000A	
<input type="checkbox"/> Critical grade (35 dB)	<input type="checkbox"/> UL <input type="checkbox"/> IEC	
<b>Starting</b>	<input type="checkbox"/> 3-pole <input type="checkbox"/> 4-pole	
<input type="checkbox"/> Standard batteries	<input type="checkbox"/> Electrically operated	
<input type="checkbox"/> Oversized batteries		
<input type="checkbox"/> Standard electric starter(s)		
<input type="checkbox"/> Heavy duty electric starter(s)		
<input type="checkbox"/> Dual electric starter(s)		
<input type="checkbox"/> Air starter(s)		
<input type="checkbox"/> Jacket water heater		
<b>Alternator</b>	<b>Trip Unit</b>	<b>Cat Connect</b>
<b>Output voltage</b>	<input type="checkbox"/> LSI <input type="checkbox"/> LSI-G	<b>Connectivity</b>
<input type="checkbox"/> 416V <input type="checkbox"/> 6600V	<input type="checkbox"/> LSIG-P	<input type="checkbox"/> Ethernet
<input type="checkbox"/> 480V <input type="checkbox"/> 6900V		<input type="checkbox"/> Cellular
<input type="checkbox"/> 600V <input type="checkbox"/> 12470V		
<input type="checkbox"/> 4160V <input type="checkbox"/> 13200V		
<input type="checkbox"/> 6300V <input type="checkbox"/> 13800V		
<b>Temperature Rise (over 40°C ambient)</b>	<b>Control System</b>	<b>Extended Service Options</b>
<input type="checkbox"/> 125°C/130°C	<b>Controller</b>	<b>Terms</b>
<input type="checkbox"/> 120°C	<input type="checkbox"/> Cat ECS 100	<input type="checkbox"/> 2 year (prime)
<input type="checkbox"/> 105°C	<input type="checkbox"/> Cat ECS 200	<input type="checkbox"/> 3 year
<input type="checkbox"/> 80°C	<input type="checkbox"/> EMCP 4.4	<input type="checkbox"/> 5 year
<b>Winding type</b>	<b>Attachments</b>	<input type="checkbox"/> 10 year
<input type="checkbox"/> Form wound	<input type="checkbox"/> Local annunciator module	
<b>Excitation</b>	<input type="checkbox"/> Remote annunciator module	
<input type="checkbox"/> Permanent magnet (PM)	<input type="checkbox"/> Expansion I/O module	
<b>Attachments</b>	<input type="checkbox"/> Remote monitoring software	
<input type="checkbox"/> Anti-condensation heater		
<input type="checkbox"/> Stator and bearing temperature monitoring and protection		
	<b>Charging</b>	<b>Coverage</b>
	<input type="checkbox"/> Battery charger – 20A	<input type="checkbox"/> Silver
	<input type="checkbox"/> Battery charger – 35A	<input type="checkbox"/> Gold
	<input type="checkbox"/> Battery charger – 50A	<input type="checkbox"/> Platinum
		<input type="checkbox"/> Platinum Plus
		<b>Ancillary Equipment</b>
		<input type="checkbox"/> Automatic transfer switch (ATS)
		<input type="checkbox"/> Paralleling switchgear
		<input type="checkbox"/> Paralleling controls
		<b>Certifications</b>
		<input type="checkbox"/> UL 2200 Listed
		<input type="checkbox"/> IBC seismic certification
		<input type="checkbox"/> OSHPD pre-approval

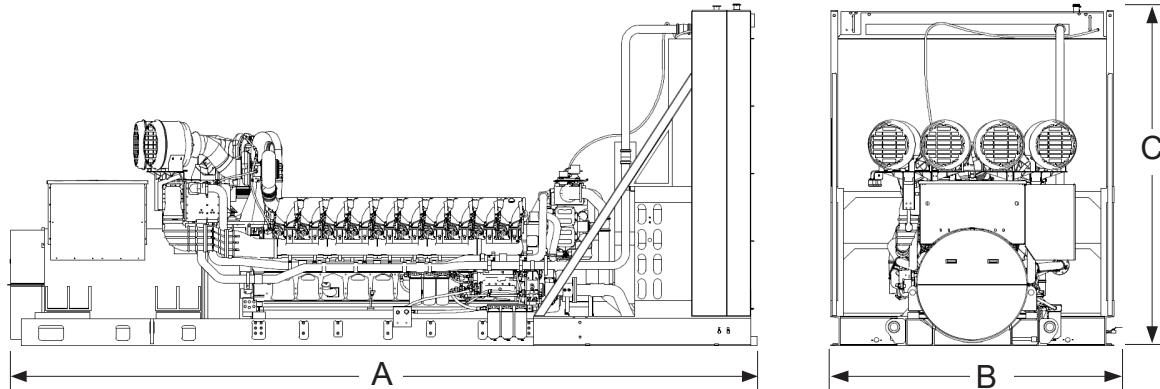
**Note:** Some options may not be available on all models. Certifications may not be available with all model configurations. Consult factory for availability.

## Package Performance

<b>Performance</b>	
Frequency	60 Hz
Gen set power rating with fan	3180 ekW
Gen set power rating with fan @ 0.8 power factor	3975 kVA
Emissions	EPA ESE (Tier 2)
Performance number	EM5927-01
<b>Fuel Consumption</b>	
100% load with fan – L/hr (gal/hr)	823.9 (217.6)
75% load with fan – L/hr (gal/hr)	663.1 (175.2)
50% load with fan – L/hr (gal/hr)	516.9 (136.6)
25% load with fan – L/hr (gal/hr)	319.6 (84.4)
<b>Cooling System</b>	
Radiator air flow restriction (system) – kPa (in. water)	0.12 (0.48)
Radiator air flow – m <sup>3</sup> /min (cfm)	3426 (120988)
Engine coolant capacity – L (gal)	440.0 (116.2)
Radiator coolant capacity – L (gal)	845.0 (223.2)
Total coolant capacity – L (gal)	1285 (339.5)
<b>Inlet Air</b>	
Combustion air inlet flow rate – m <sup>3</sup> /min (cfm)	286.3 (10109.0)
<b>Exhaust System</b>	
Exhaust stack gas temperature – °C (°F)	458.7 (857.7)
Exhaust gas flow rate – m <sup>3</sup> /min (cfm)	717.7 (25347.7)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7 (27.0)
<b>Heat Rejection</b>	
Heat rejection to jacket water – kW (Btu/min)	1676 (95336)
Heat rejection to exhaust (total) – kW (Btu/min)	3186 (181182)
Heat rejection to aftercooler – kW (Btu/min)	288 (16392)
Heat rejection to atmosphere from engine – kW (Btu/min)	189 (10735)
Heat rejection from alternator – kW (Btu/min)	171 (9725)
<b>Emissions* (Nominal)</b>	
NOx mg/Nm <sup>3</sup> (g/hp-h)	2664.5 (5.54)
CO mg/Nm <sup>3</sup> (g/hp-h)	208.5 (0.44)
HC mg/Nm <sup>3</sup> (g/hp-h)	13.2 (0.03)
PM mg/Nm <sup>3</sup> (g/hp-h)	8.3 (0.02)
<b>Emissions* (Potential Site Variation)</b>	
NOx mg/Nm <sup>3</sup> (g/hp-h)	3197.4 (6.64)
CO mg/Nm <sup>3</sup> (g/hp-h)	375.4 (0.78)
HC mg/Nm <sup>3</sup> (g/hp-h)	17.6 (0.04)
PM mg/Nm <sup>3</sup> (g/hp-h)	11.6 (0.03)

\*mg/Nm<sup>3</sup> levels are corrected to 5% O<sub>2</sub>. Contact your local Cat dealer for further information.

## Weights and Dimensions



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
8409 (331.1)	3264 (128.5)	3828 (150.7)	29 870 (65,850)

**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, UL 2200 3rd edition, UL 489, UL 869A, 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.

[www.cat.com/electricpower](http://www.cat.com/electricpower)

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