# Cat® 3516B

# **Diesel Generator Sets**





Bore – mm (in)	170 (6.69)		
Stroke – mm (in)	215 (8.46)		
Displacement – L (in³)	78.1 (4765)		
Compression Ratio	15.5:1		
Aspiration	TA		
Fuel System	EUI		
Governor Type	ADEM™ A3		

Image shown may not reflect actual configuration

Prime-DCP 50 Hz kVA (ekW)	Emissions Performance		
2275 (1820)	Optimized for Low Fuel Consumption or Low Emissions		

### **Features**

### Cat® Diesel Engine

- Designed and optimized for low emissions or low fuel consumption
- 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

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# **Standard and Optional Equipment**

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Engine	Power Termination	Vibration Isolators			
Air Cleaner  ☐ Single element ☐ Dual element	Type  □ Bus bar □ Circuit breaker	<ul><li>□ Rubber</li><li>□ Spring</li><li>□ Seismic rated</li></ul>			
☐ Heavy duty	□ 1600A □ 2000A □ 3000A	Cat Connect			
Muffler ☐ Industrial grade (10 dB) ☐ Industrial grade (15 dB) ☐ Residential grade (20 dB) ☐ Critical grade (35 dB)	☐ 3200A ☐ UL ☐ IEC ☐ 3-pole ☐ 4-pole ☐ Manually operated ☐ Electrically operated	Connectivity ☐ Ethernet ☐ Cellular			
Starting		<b>Extended Service Options</b>			
☐ Standard batteries ☐ Oversized batteries ☐ Standard electric starter(s)	Trip Unit □ LSI □ LSI-G □ LSIG-P	Terms □ 2 year (prime) □ 3 year			
<ul><li>☐ Dual electric starter(s)</li><li>☐ Air starter(s)</li></ul>	Control System	□ 5 year □ 10 year			
☐ Jacket water heater	Controller	Coverage			
Alternator	☐ Cat ECS 100 ☐ Cat ECS 200	☐ Silver ☐ Gold			
Output voltage	□ EMCP 4.4	☐ Platinum			
□ 380V □ 6600V	Attachments	☐ Platinum Plus			
□ 400V □ 6900V □ 10000V	<ul><li>□ Local annunciator module</li><li>□ Remote annunciator module</li></ul>	Ancillary Equipment			
□ 3300V □ 10500V □ 6300V □ 11000V	☐ Expansion I/O module ☐ Remote monitoring software	☐ Automatic transfer switch (ATS)			
Temperature Rise	Charging	<ul><li>□ Paralleling switchgear</li><li>□ Paralleling controls</li></ul>			
(over 40°C ambient) ☐ 150°C	☐ Battery charger – 10A	Trafalleling controls			
□ 125°C/130°C	☐ Battery charger – 20A	Certifications			
□ 105°C □ 80°C	☐ Battery charger – 35A	☐ IBC seismic certification ☐ EU & GB Declaration of Conformity ☐ EU & GB Declaration of Incorporation ☐ Eurasian Conformity (EAC)			
Winding type ☐ Random wound ☐ Form wound					
Excitation  ☐ Internal excitation (IE) ☐ Permanent magnet (PM)					
Attachments					
<ul><li>☐ Anti-condensation heater</li><li>☐ Stator and bearing temperature monitoring and protection</li></ul>					

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

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# **Package Performance**

# **Low Fuel Consumption**

Performance	Prim	e-DCP	Prim	e-DCP	Prim	e-DCP
Frequency	50	) Hz	50	0 Hz	50	Hz
Gen set power rating with fan	182	0 ekW	182	0 ekW	1820	) ekW
Gen set power rating with fan @ 0.8 power factor	227	5 kVA	227	5 kVA	227	5 kVA
Emissions	Lov	v Fuel	Lov	v Fuel	Low Fuel	
Performance number	EM5	903-00	EM5	904-00	EM5	905-00
Aftercooler (separate circuit) – °C (°F)	30	(86)	60	(140)	90	(194)
Fuel Consumption						
100% load with fan – L/hr (gal/hr)	439.5	(116.1)	445.9	(117.8)	456.0	(120.5)
75% load with fan – L/hr (gal/hr)	325.1	(85.9)	329.9	(87.1)	335.2	(88.6)
50% load with fan – L/hr (gal/hr)	223.5	(59.0)	228.8	(60.5)	231.6	(61.2)
25% load with fan – L/hr (gal/hr)	129.7	(34.3)	132.0	(34.9)	131.1	(34.6)
Cooling System						
Radiator air flow restriction (system) – kPa (in. water)	0.12	(0.48)	0.12	(0.48)	0.12	(0.48)
Radiator air flow – m³/min (cfm)	1612	(56927)	1612	(56927)	1612	(56927)
Engine coolant capacity – L (gal)	233.0	(61.6)	233.0	(61.6)	233.0	(61.6)
Radiator coolant capacity – L (gal)	131.0	(34.6)	131.0	(34.6)	131.0	(34.6)
Total coolant capacity – L (gal)	364.0	(96.2)	364.0	(96.2)	364.0	(96.2)
Inlet Air						
Combustion air inlet flow rate – m³/min (cfm)	152.7	(5391.9)	147.5	(5208.3)	143.9	(5081.2)
Exhaust System						
Exhaust stack gas temperature – °C (°F)	456.4	(853.5)	489.0	(912.2)	531.9	(989.4)
Exhaust gas flow rate – m³/min (cfm)	391.3	(13816.9)	395.4	(13961.6)	407.5	(14388.9)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(27.0)	6.7	(27.0)	6.7	(27.0)
Heat Rejection						
Heat rejection to jacket water – kW (Btu/min)	585	(33267)	639	(36339)	702	(39922)
Heat rejection to exhaust (total) – kW (Btu/min)	1707	(97074)	1775	(100941)	1884	(107139)
Heat rejection to aftercooler – kW (Btu/min)	459	(26103)	388	(22065)	314	(17856)
Heat rejection to atmosphere from engine – kW (Btu/min)	133	(7563)	144	(8189)	157	(8928)
Heat rejection from alternator – kW (Btu/min)	83	(4713)	83	(4713)	83	(4713)
Emissions* (Nominal)						
NOx mg/Nm³ (g/hp-h)	2799.1	(5.65)	3066.9	(6.28)	3225.6	(6.75)
CO mg/Nm³ (g/hp-h)	153.6	(0.31)	209.8	(0.43)	3073	(0.64)
HC mg/Nm³ (g/hp-h)	72.5	(0.15)	67.7	(0.14)	60.5	(0.13)
PM mg/Nm³ (g/hp-h)	17.9	(0.04)	19.5	(0.04)	22.3	(0.05)
Emissions* (Potential Site Variation)						
NOx mg/Nm³ (g/hp-h)	3359.0	(6.78)	3680.3	(7.54)	3870.8	(8.10)
CO mg/Nm³ (g/hp-h)	276.5	(0.56)	377.6	(0.77)	553.1	(1.16)
HC mg/Nm³ (g/hp-h)	96.4	(0.19)	90.0	(0.18)	80.5	(0.17)
PM mg/Nm³ (g/hp-h)	25.1	(0.05)	27.3	(0.06)	31.2	(0.07)

<sup>\*</sup>mg/Nm³ levels are corrected to 5% O<sub>2</sub>. Contact your local Cat dealer for further information.

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# **Package Performance**

## **Low Emissions**

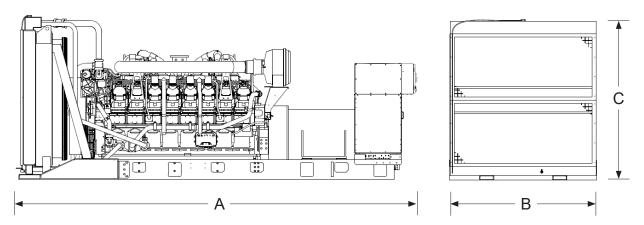
Frequency	Performance	Prim	ie-DCP	Prim	e-DCP	Prim	e-DCP
Can set power rating with fan @	Frequency	5	0 Hz	5	0 Hz	50	) Hz
D.8 power factor	Gen set power rating with fan	182	0 ekW	182	0 ekW	1820	) ekW
Performance number		227	5 kVA	2275 kVA		2275 kVA	
Aftercooler (separate circuit) - °C (°F)	Emissions	Low E	missions	Low E	missions	Low Emissions	
Fuel Consumption   100% load with fan — L/hr (gal/hr)	Performance number	EM5	906-00	EM5	907-00	EM5908-00	
100% load with fan - L/hr (gal/hr)	Aftercooler (separate circuit) – °C (°F)	30	(86)	60	(140)	90	(194)
75% load with fan — L/hr (gal/hr) 359.9 (95.1) 362.5 (95.8) 347.9 (91.9) 50% load with fan — L/hr (gal/hr) 241.3 (63.7) 247.4 (65.4) 239.1 (63.2) 25% load with fan — L/hr (gal/hr) 134.8 (35.6) 136.2 (36.0) 138.8 (36.5)    Cooling System   Radiator air flow restriction (system) —   Rea (in. water)	Fuel Consumption						
50% load with fan - L/hr (gal/hr)	100% load with fan – L/hr (gal/hr)	472.7	(124.9)	481.4	(127.2)	462.9	(122.3)
25% load with fan – L/hr (gal/hr)	75% load with fan – L/hr (gal/hr)	359.9	(95.1)	362.5	(95.8)	347.9	(91.9)
Cooling System           Radiator air flow restriction (system) – kPa (in. water)         0.12 (0.48)         0.16 (0.48)         0.12 (0.48)         0.12 (0.48)         0.12 (0.48)         0.16 (0.48)         0.16 (0.48)         0.12 (0.48)         0.16 (0.48)         0.16 (0.48)         0.16 (0.48)         0.16 (0.48)         0.16 (0.48)         0.14 (0.48)         0.14 (0.48)         0.14 (0.48)         0.14 (0.48)         0.14 (0.48)         0.14 (0.48)         0.14 (0.48)         0.14 (0.48)         0.15 (0.48)         0.15 (0.48)         0.15 (0.48)         0.15 (0.48)         0.15 (0.48)         0.15 (0.48)         0.15 (0.48)         0.15 (0.48)         0.15 (0.48)         0.15 (0.48)         0.15 (0.48)         0	50% load with fan – L/hr (gal/hr)	241.3	(63.7)	247.4	(65.4)	239.1	(63.2)
Radiator air flow restriction (system) – k/Pa (in. water) Radiator air flow – m³/min (cfm) Radiator coolant capacity – L (gal) Radiator air inlet flow rate – m³/min (cfm) Radiator air inlet flow ra	25% load with fan – L/hr (gal/hr)	134.8	(35.6)	136.2	(36.0)	138.8	(36.5)
RPa (in. water)   Rediator air flow - m³/min (cfm)   1612   (56927)   1622   (6622)   1612   (6122)   1612   (6	Cooling System						
Engine coolant capacity — L (gal)		0.12	(0.48)	0.12	(0.48)	0.12	(0.48)
Radiator coolant capacity – L (gal) 131.0 (34.6) 131.0 (34.6) 131.0 (34.6) 131.0 (34.6) 150.0 (96.2) 364.0 (9	Radiator air flow – m³/min (cfm)	1612	(56927)	1612	(56927)	1612	(56927)
Total coolant capacity - L (gal)   364.0 (96.2)   364.0 (96.2)   364.0 (96.2)   Inlet Air	Engine coolant capacity – L (gal)	233.0	(61.6)	233.0	(61.6)	233.0	(61.6)
Inlet Air   Combustion air inlet flow rate - m³/min (cfm)   171.4 (6052.2)   167.6 (5918.0)   150.7 (5321.3)	Radiator coolant capacity – L (gal)	131.0	(34.6)	131.0	(34.6)	131.0	(34.6)
Exhaust System         171.4         (6052.2)         167.6         (5918.0)         150.7         (5321.3)           Exhaust System           Exhaust stack gas temperature – °C (°F)         473.5         (884.3)         506.3         (943.3)         519.1         (966.4)           Exhaust gas flow rate – m³/min (cfm)         444.0         (15677.8)         453.7         (16020.3)         420.2         (14837.4)           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)         617         (35088)         674         (38329)         711         (40434)           Heat rejection to exhaust (total) – kW (Btu/min)         1984         (112828)         2052         (116695)         1923         (109358)           Heat rejection to aftercooler – kW (Btu/min)         560         (31845)         480         (27296)         347         (19733)           Heat rejection to atmosphere from engine – kW (Btu/min)         141         (8019)         154         (8757)         164         (9326)           Heat rejection from alternator – kW (Btu/min)         83	Total coolant capacity – L (gal)	364.0	(96.2)	364.0	(96.2)	364.0	(96.2)
Exhaust System  Exhaust stack gas temperature – °C (°F)	Inlet Air						
Exhaust stack gas temperature – °C (°F)	Combustion air inlet flow rate – m³/min (cfm)	171.4	(6052.2)	167.6	(5918.0)	150.7	(5321.3)
Exhaust gas flow rate — m³/min (cfm)	Exhaust System						
Exhaust system backpressure (maximum allowable) – kPa (in. water)  Heat Rejection  Heat rejection to jacket water – kW (Btu/min) 617 (35088) 674 (38329) 711 (40434)  Heat rejection to exhaust (total) – kW (Btu/min) 1984 (112828) 2052 (116695) 1923 (109358)  Heat rejection to aftercooler – kW (Btu/min) 560 (31845) 480 (27296) 347 (19733)  Heat rejection to atmosphere from engine – kW (Btu/min) 83 (4713) 83 (4713) 83 (4713)  Emissions* (Nominal)  NOx mg/Nm³ (g/hp-h) 1742.2 (3.77) 1969.6 (4.35) 2891.2 (6.14)  CO mg/Nm³ (g/hp-h) 60.9 (0.13) 50.3 (0.11) 64.1 (0.14)  PM mg/Nm³ (g/hp-h) 35.5 (0.08) 50.9 (0.11) 13.8 (0.03)  Emissions* (Potential Site Variation)  NOx mg/Nm³ (g/hp-h) 2090.6 (4.53) 2363.5 (5.22) 3469.4 (7.37)  CO mg/Nm³ (g/hp-h) 399.9 (0.87) 721.3 (1.59) 647.5 (1.38)  HC mg/Nm³ (g/hp-h) 81.0 (0.18) 66.9 (0.15) 85.3 (0.18)	Exhaust stack gas temperature – °C (°F)	473.5	(884.3)	506.3	(943.3)	519.1	(966.4)
Heat Rejection   Heat rejection to jacket water - kW (Btu/min)   Heat rejection to exhaust (total) - kW (Btu/min)   Heat rejection to exhaust (total) - kW (Btu/min)   Heat rejection to exhaust (total) - kW (Btu/min)   Heat rejection to aftercooler - kW (Btu/min)   Heat rejection to aftercooler - kW (Btu/min)   Heat rejection to atmosphere from engine - kW (Btu/min)   Heat rejection to atmosphere from engine - kW (Btu/min)   Heat rejection from alternator - kW (Btu/min)   Howard (R757)	Exhaust gas flow rate – m³/min (cfm)	444.0	(15677.8)	453.7	(16020.3)	420.2	(14837.4)
Heat rejection to jacket water – kW (Btu/min)         617         (35088)         674         (38329)         711         (40434)           Heat rejection to exhaust (total) – kW (Btu/min)         1984         (112828)         2052         (116695)         1923         (109358)           Heat rejection to aftercooler – kW (Btu/min)         560         (31845)         480         (27296)         347         (19733)           Heat rejection to atmosphere from engine – kW (Btu/min)         141         (8019)         154         (8757)         164         (9326)           Heat rejection from alternator – kW (Btu/min)         83         (4713)         83         (4713)         83         (4713)           Emissions* (Nominal)         NOx mg/Nm³ (g/hp-h)         1742.2         (3.77)         1969.6         (4.35)         2891.2         (6.14)           CO mg/Nm³ (g/hp-h)         222.2         (0.48)         400.7         (0.89)         359.7         (0.76)           HC mg/Nm³ (g/hp-h)         35.5         (0.08)         50.9         (0.11)         64.1         (0.14)           PM mg/Nm³ (g/hp-h)         2090.6         (4.53)         2363.5         (5.22)         3469.4         (7.37)           CO mg/Nm³ (g/hp-h)         2090.6         (4.53)         2363	'	6.7	(27.0)	6.7	(27.0)	6.7	(27.0)
Heat rejection to exhaust (total) – kW (Btu/min)       1984 (112828)       2052 (116695)       1923 (109358)         Heat rejection to aftercooler – kW (Btu/min)       560 (31845)       480 (27296)       347 (19733)         Heat rejection to atmosphere from engine – kW (Btu/min)       141 (8019)       154 (8757)       164 (9326)         Heat rejection from alternator – kW (Btu/min)       83 (4713)       83 (4713)       83 (4713)         Emissions* (Nominal)         NOx mg/Nm³ (g/hp-h)       1742.2 (3.77)       1969.6 (4.35)       2891.2 (6.14)         CO mg/Nm³ (g/hp-h)       222.2 (0.48)       400.7 (0.89)       359.7 (0.76)         HC mg/Nm³ (g/hp-h)       60.9 (0.13)       50.3 (0.11)       64.1 (0.14)         PM mg/Nm³ (g/hp-h)       35.5 (0.08)       50.9 (0.11)       13.8 (0.03)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       2090.6 (4.53)       2363.5 (5.22)       3469.4 (7.37)         CO mg/Nm³ (g/hp-h)       399.9 (0.87)       721.3 (1.59)       647.5 (1.38)         HC mg/Nm³ (g/hp-h)       81.0 (0.18)       66.9 (0.15)       85.3 (0.18)	Heat Rejection		_				
Heat rejection to aftercooler – kW (Btu/min)         560 (31845)         480 (27296)         347 (19733)           Heat rejection to atmosphere from engine – kW (Btu/min)         141 (8019)         154 (8757)         164 (9326)           Heat rejection from alternator – kW (Btu/min)         83 (4713)         83 (4713)         83 (4713)           Emissions* (Nominal)           NOx mg/Nm³ (g/hp-h)         1742.2 (3.77)         1969.6 (4.35)         2891.2 (6.14)           CO mg/Nm³ (g/hp-h)         222.2 (0.48)         400.7 (0.89)         359.7 (0.76)           HC mg/Nm³ (g/hp-h)         60.9 (0.13)         50.3 (0.11)         64.1 (0.14)           PM mg/Nm³ (g/hp-h)         35.5 (0.08)         50.9 (0.11)         13.8 (0.03)           Emissions* (Potential Site Variation)           NOx mg/Nm³ (g/hp-h)         2090.6 (4.53)         2363.5 (5.22)         3469.4 (7.37)           CO mg/Nm³ (g/hp-h)         399.9 (0.87)         721.3 (1.59)         647.5 (1.38)           HC mg/Nm³ (g/hp-h)         81.0 (0.18)         66.9 (0.15)         85.3 (0.18)	Heat rejection to jacket water – kW (Btu/min)	617	(35088)	674	(38329)	711	(40434)
Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection from alternator – kW (Btu/min)  Emissions* (Nominal)  NOx mg/Nm³ (g/hp-h)  1742.2 (3.77) 1969.6 (4.35) 2891.2 (6.14)  CO mg/Nm³ (g/hp-h)  222.2 (0.48) 400.7 (0.89) 359.7 (0.76)  HC mg/Nm³ (g/hp-h)  60.9 (0.13) 50.3 (0.11) 64.1 (0.14)  PM mg/Nm³ (g/hp-h)  35.5 (0.08) 50.9 (0.11) 13.8 (0.03)  Emissions* (Potential Site Variation)  NOx mg/Nm³ (g/hp-h)  2090.6 (4.53) 2363.5 (5.22) 3469.4 (7.37)  CO mg/Nm³ (g/hp-h)  399.9 (0.87) 721.3 (1.59) 647.5 (1.38)  HC mg/Nm³ (g/hp-h)  81.0 (0.18) 66.9 (0.15) 85.3 (0.18)	Heat rejection to exhaust (total) – kW (Btu/min)	1984	(112828)	2052	(116695)	1923	(109358)
kW (Btu/min)       141       (8019)       154       (8757)       164       (9326)         Heat rejection from alternator – kW (Btu/min)       83       (4713)       83       (4713)       83       (4713)         Emissions* (Nominal)         NOx mg/Nm³ (g/hp-h)       1742.2       (3.77)       1969.6       (4.35)       2891.2       (6.14)         CO mg/Nm³ (g/hp-h)       222.2       (0.48)       400.7       (0.89)       359.7       (0.76)         HC mg/Nm³ (g/hp-h)       60.9       (0.13)       50.3       (0.11)       64.1       (0.14)         PM mg/Nm³ (g/hp-h)       35.5       (0.08)       50.9       (0.11)       13.8       (0.03)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       2090.6       (4.53)       2363.5       (5.22)       3469.4       (7.37)         CO mg/Nm³ (g/hp-h)       399.9       (0.87)       721.3       (1.59)       647.5       (1.38)         HC mg/Nm³ (g/hp-h)       81.0       (0.18)       66.9       (0.15)       85.3       (0.18)	Heat rejection to aftercooler – kW (Btu/min)	560	(31845)	480	(27296)	347	(19733)
Emissions* (Nominal)         NOx mg/Nm³ (g/hp-h)       1742.2 (3.77) 1969.6 (4.35) 2891.2 (6.14)         CO mg/Nm³ (g/hp-h)       222.2 (0.48) 400.7 (0.89) 359.7 (0.76)         HC mg/Nm³ (g/hp-h)       60.9 (0.13) 50.3 (0.11) 64.1 (0.14)         PM mg/Nm³ (g/hp-h)       35.5 (0.08) 50.9 (0.11) 13.8 (0.03)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       2090.6 (4.53) 2363.5 (5.22) 3469.4 (7.37)         CO mg/Nm³ (g/hp-h)       399.9 (0.87) 721.3 (1.59) 647.5 (1.38)         HC mg/Nm³ (g/hp-h)       81.0 (0.18) 66.9 (0.15) 85.3 (0.18)	· · · · · · · · · · · · · · · · · · ·	141	(8019)	154	(8757)	164	(9326)
NOx mg/Nm³ (g/hp-h)       1742.2       (3.77)       1969.6       (4.35)       2891.2       (6.14)         CO mg/Nm³ (g/hp-h)       222.2       (0.48)       400.7       (0.89)       359.7       (0.76)         HC mg/Nm³ (g/hp-h)       60.9       (0.13)       50.3       (0.11)       64.1       (0.14)         PM mg/Nm³ (g/hp-h)       35.5       (0.08)       50.9       (0.11)       13.8       (0.03)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       2090.6       (4.53)       2363.5       (5.22)       3469.4       (7.37)         CO mg/Nm³ (g/hp-h)       399.9       (0.87)       721.3       (1.59)       647.5       (1.38)         HC mg/Nm³ (g/hp-h)       81.0       (0.18)       66.9       (0.15)       85.3       (0.18)	Heat rejection from alternator – kW (Btu/min)	83	(4713)	83	(4713)	83	(4713)
CO mg/Nm³ (g/hp-h)       222.2       (0.48)       400.7       (0.89)       359.7       (0.76)         HC mg/Nm³ (g/hp-h)       60.9       (0.13)       50.3       (0.11)       64.1       (0.14)         PM mg/Nm³ (g/hp-h)       35.5       (0.08)       50.9       (0.11)       13.8       (0.03)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       2090.6       (4.53)       2363.5       (5.22)       3469.4       (7.37)         CO mg/Nm³ (g/hp-h)       399.9       (0.87)       721.3       (1.59)       647.5       (1.38)         HC mg/Nm³ (g/hp-h)       81.0       (0.18)       66.9       (0.15)       85.3       (0.18)	Emissions* (Nominal)						
HC mg/Nm³ (g/hp-h)       60.9       (0.13)       50.3       (0.11)       64.1       (0.14)         PM mg/Nm³ (g/hp-h)       35.5       (0.08)       50.9       (0.11)       13.8       (0.03)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       2090.6       (4.53)       2363.5       (5.22)       3469.4       (7.37)         CO mg/Nm³ (g/hp-h)       399.9       (0.87)       721.3       (1.59)       647.5       (1.38)         HC mg/Nm³ (g/hp-h)       81.0       (0.18)       66.9       (0.15)       85.3       (0.18)	NOx mg/Nm³ (g/hp-h)	1742.2	(3.77)	1969.6	(4.35)	2891.2	(6.14)
PM mg/Nm³ (g/hp-h)       35.5       (0.08)       50.9       (0.11)       13.8       (0.03)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       2090.6       (4.53)       2363.5       (5.22)       3469.4       (7.37)         CO mg/Nm³ (g/hp-h)       399.9       (0.87)       721.3       (1.59)       647.5       (1.38)         HC mg/Nm³ (g/hp-h)       81.0       (0.18)       66.9       (0.15)       85.3       (0.18)	CO mg/Nm³ (g/hp-h)	222.2	(0.48)	400.7	(0.89)	359.7	(0.76)
Emissions* (Potential Site Variation)           NOx mg/Nm³ (g/hp-h)         2090.6 (4.53)         2363.5 (5.22)         3469.4 (7.37)           CO mg/Nm³ (g/hp-h)         399.9 (0.87)         721.3 (1.59)         647.5 (1.38)           HC mg/Nm³ (g/hp-h)         81.0 (0.18)         66.9 (0.15)         85.3 (0.18)	HC mg/Nm³ (g/hp-h)	60.9	(0.13)	50.3	(0.11)	64.1	(0.14)
NOx mg/Nm³ (g/hp-h)       2090.6 (4.53)       2363.5 (5.22)       3469.4 (7.37)         CO mg/Nm³ (g/hp-h)       399.9 (0.87)       721.3 (1.59)       647.5 (1.38)         HC mg/Nm³ (g/hp-h)       81.0 (0.18)       66.9 (0.15)       85.3 (0.18)	PM mg/Nm³ (g/hp-h)	35.5	(0.08)	50.9	(0.11)	13.8	(0.03)
CO mg/Nm³ (g/hp-h)       399.9 (0.87)       721.3 (1.59)       647.5 (1.38)         HC mg/Nm³ (g/hp-h)       81.0 (0.18)       66.9 (0.15)       85.3 (0.18)	Emissions* (Potential Site Variation)						
HC mg/Nm³ (g/hp-h) 81.0 (0.18) 66.9 (0.15) 85.3 (0.18)	NOx mg/Nm³ (g/hp-h)	2090.6	(4.53)	2363.5	(5.22)	3469.4	(7.37)
	CO mg/Nm³ (g/hp-h)	399.9	(0.87)	721.3	(1.59)	647.5	(1.38)
PM mg/Nm³ (g/hp-h) 49.7 (0.11) 71.3 (0.16) 19.3 (0.04)	HC mg/Nm³ (g/hp-h)	81.0	(0.18)	66.9	(0.15)	85.3	(0.18)
	PM mg/Nm³ (g/hp-h)	49.7	(0.11)	71.3	(0.16)	19.3	(0.04)

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

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# **Weights and Dimensions**



Dim "A"	Dim "B"	Dim "C"	Dry Weight
mm (in)	mm (in)	mm (in)	kg (lb)
6435 (253.3)	2286 (90.0)	2494 (98.2)	

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

# **Ratings Definition**

### 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, 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

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Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication.