Cat® 3516B

Diesel Generator Sets





Bore – mm (in)	170 (6.69)
Stroke – mm (in)	190 (7.48)
Displacement – L (in³)	69.0 (4211)
Compression Ratio	14.0:1
Aspiration	TA
Fuel System	EUI
Governor Type	ADEM™ A3

Image shown may not reflect actual configuration

Prime-DCP 60 Hz ekW (kVA)	Emissions Performance
1825 (2281)	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

Engine	Power Termination	Vibration Isolators			
Air Cleaner ☐ Single element ☐ Dual element	Type ☐ Bus bar ☐ Circuit breaker ☐ 16004 ☐ 20004	□ Rubber□ Spring□ Seismic rated			
Muffler	□ 1600A □ 2000A □ 2500A □ 3000A	Cat Connect			
 ☐ Industrial grade (15 dB) Starting ☐ Standard batteries ☐ Oversized batteries 	□ 3200A □ 4000A □ 5000A □ UL □ IEC □ 3-pole □ 4-pole	Connectivity ☐ Ethernet ☐ Cellular			
☐ Standard electric starter(s)	☐ Manually operated ☐ Electrically operated	Extended Service Options			
☐ Air starter(s) ☐ Jacket water heater	eavy duty electric starter(s) ir starter(s) acket water heater				
Alternator	Control System	□ 5 year □ 10 year			
Output voltage □ 380V □ 6300V □ 440V □ 6600V □ 480V □ 6900V □ 600V □ 12470V □ 2400V □ 13200V	Controller □ Cat ECS 100 □ Cat ECS 200 □ EMCP 4.4	Coverage □ Silver □ Gold □ Platinum □ Platinum Plus			
□ 4160V □ 13800V	Attachments ☐ Local annunciator module	Ancillary Equipment			
Temperature Rise (over 40°C ambient) □ 150°C □ 125°C/130°C □ 105°C □ 80°C	□ Remote annunciator module□ Expansion I/O module□ Remote monitoring software	□ Automatic transfer switch (ATS)□ Paralleling switchgear			
	Charging				
Winding type	☐ Battery charger – 10A	Certifications			
□ Random wound □ Form wound	□ Battery charger – 20A□ Battery charger – 35A	☐ ULC 2200 Listed☐ IBC seismic certification☐ OSHPD pre-approval			
Excitation ☐ Internal excitation (IE) ☐ Permanent magnet (PM)					
Attachments ☐ Anti-condensation heater ☐ Stator and bearing temperature					

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

monitoring and protection

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Package Performance

Low Fuel Consumption

Performance	Prim	e-DCP	Prim	e-DCP	Prim	e-DCP
Frequency	60 Hz		60 Hz		60 Hz	
Gen set power rating with fan	1825 ekW		1825 ekW		1825 ekW	
Gen set power rating with fan @ 0.8 power factor	2281 kVA		2281 kVA		2281 kVA	
Emissions	Low Fuel		Low Fuel		Low Fuel	
Performance number	EM5	867-00	EM5868-00		EM5869-00	
Aftercooler (separate circuit) – °C (°F)	30	(86)	60	(140)	90	(194)
Fuel Consumption						
100% load with fan – L/hr (gal/hr)	451.5	(119.3)	457.6	(120.9)	464.7	(122.7)
75% load with fan – L/hr (gal/hr)	342.3	(90.4)	345.3	(91.2)	347.3	(91.7)
50% load with fan – L/hr (gal/hr)	240.5	(63.6)	244.0	(64.4)	240.2	(63.5)
25% load with fan – L/hr (gal/hr)	144.1	(38.1)	147.2	(38.9)	138.8	(36.7)
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)	1674	(59116)	1674	(59116)	1674	(59116)
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)	164.1	(5794.5)	159.9	(5646.2)	156.7	(5533.2)
Exhaust System						
Exhaust stack gas temperature – °C (°F)	424.7	(796.5)	455.6	(852.1)	486.3	(907.3)
Exhaust gas flow rate – m³/min (cfm)	397.4	(14032.5)	406.6	(14357.3)	416.4	(14703.4)
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)	684	(38898)	719	(40889)	762	(43335)
Heat rejection to exhaust (total) – kW (Btu/min)	1692	(96222)	1778	(101112)	1868	(106230)
Heat rejection to aftercooler – kW (Btu/min)	492	(27980)	418	(23772)	351	(19961)
Heat rejection to atmosphere from engine – kW (Btu/min)	126	(7165)	136	(7734)	148	(8417)
Heat rejection from alternator – kW (Btu/min)	86	(4895)	86	(4895)	86	(4895)
Emissions* (Nominal)						
NOx mg/Nm³ (g/hp-h)	4149.6	(8.46)	4495.1	(9.27)	4406.7	(9.25)
CO mg/Nm³ (g/hp-h)	200.9	(0.41)	145.7	(0.30)	175.1	(0.37)
HC mg/Nm³ (g/hp-h)	126.3	(0.26)	111.5	(0.23)	93.5	(0.20)
PM mg/Nm³ (g/hp-h)	43.9	(0.09)	36.6	(80.0)	34.0	(0.07)
Emissions* (Potential Site Variation)						
NOx mg/Nm³ (g/hp-h)	4979.5	(10.16)	5394.1	(11.13)	5288.0	(11.10)
CO mg/Nm³ (g/hp-h)	361.6	(0.74)	262.3	(0.54)	315.2	(0.66)
HC mg/Nm³ (g/hp-h)	168.0	(0.34)	148.3	(0.31)	124.4	(0.26)
(9/1/- 1/)						

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

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Package Performance

Low Emissions

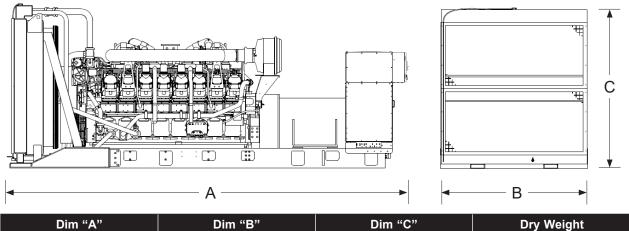
Frequency	Performance	Prime-DCP		Prime-DCP		Prime-DCP			
Can set power rating with fan @ 2281 kVA 2281 kVA 2281 kVA 2281 kVA 0.8 power factor	Frequency			60 Hz		60 Hz			
D.8 power factor Care Name N	Gen set power rating with fan	1825 ekW		1825 ekW		1825 ekW			
Performance number EMS→000 EMS→100 CMS→100 CMS→100 <td></td> <td colspan="2">2281 kVA</td> <td colspan="2">2281 kVA</td> <td colspan="2">2281 kVA</td>		2281 kVA		2281 kVA		2281 kVA			
Aftercooler (separate circuit) - °C (°F) 30 (86) 60 (140) 90 (194)	Emissions	Low Emissions		Low Emissions		Low Emissions			
Name	Performance number	EM5900-00		EM5901-00		EM5902-00			
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) 364.2 (96.2) 363.7 (96.1) 361.7 (95.5) 50% load with fan – L/hr (gal/hr) 252.1 (66.6) 253.1 (67.0) 251.9 (66.5) 25% load with fan – L/hr (gal/hr) 146.7 (38.7) 149.2 (39.4) 140.2 (37.0) 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) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 0.16 0	Fuel Consumption								
50% load with fan – L/hr (gal/hr) 252.1 (66.6) 253.1 (67.0) 251.9 (66.5) 25% load with fan – L/hr (gal/hr) 146.7 (38.7) 149.2 (39.4) 140.2 (37.0) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 <	100% load with fan – L/hr (gal/hr)	487.8	(128.9)	489.I	(129.3)	480.8	(127.0)		
25% load with fan - L/hr (gal/hr)	75% load with fan – L/hr (gal/hr)	364.2	(96.2)	363.7	(96.1)	361.7	(95.5)		
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) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.16 233.0 (61.6) 233.0 (61.6) 233.0 (61.6) 233.0 (61.6) 233.0 (61.6) 233.0 (61.6) 233.0 (61.6) 233.0 (61.6) 233.0 (61.6) 233.0 (61.6) 233.0 (61.6) 233.0 (61.6) 233.0 (61.6) 233.0 (61.6) 233.0 (61.6) 236.0 (96.2) 160.2 160.2 160.2 160.2 160.2 160.2 160.2 160.2 160.2 <td>50% load with fan – L/hr (gal/hr)</td> <td>252.1</td> <td>(66.6)</td> <td>253.Î</td> <td>(67.0)</td> <td>251.9</td> <td>(66.5)</td>	50% load with fan – L/hr (gal/hr)	252.1	(66.6)	253.Î	(67.0)	251.9	(66.5)		
Radiator air flow restriction (system) – k/Pa (in. water) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 (0.48) 0.12 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.11 0.	25% load with fan – L/hr (gal/hr)	146.7	(38.7)	149.2	(39.4)	140.2	(37.0)		
Radiator air flow - m³/min (cfm) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (59116) 1674 (6158.2) 161.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) 131.0 (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0) (34.0	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) (34.6) (34.6) (34.6) (34.6) (34.6) (34.6) (34.6) (34.6) (34.6) (34.6) (34.6) (34.6) (36.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 364.0 (96.2) 161.6 (5706.2) 282.0 161.6 6706.2 282.0 161.6 6706.2 282.0 161.6 6706.2 282.0 162.0 162.0 162.0 162.0 162.0 162.0 162.0 162.0 162.0 162.0 162.0	Radiator air flow – m³/min (cfm)	1674	(59116)	1674	(59116)	1674	(59116)		
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)		
Combustion air inlet flow rate - m³/min (cfm) 174.4 (6158.2) 169.7 (5992.2) 161.6 (5706.2) Exhaust System	Radiator coolant capacity – L (gal)	131.0	(34.6)	131.0	(34.6)	131.0	(34.6)		
Combustion air inlet flow rate – m³/min (cfm) 174.4 (6158.2) 169.7 (5992.2) 161.6 (5706.2) Exhaust System Exhaust sack gas temperature – °C (°F) 465.0 (869.0) 487.2 (909.0) 498.9 (930.0) Exhaust gas flow rate – m³/min (cfm) 447.3 (15794.5) 450.3 (15900.4) 436.7 (15420.2) 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) 723 (41116) 754 (42879) 779 (44302) Heat rejection to exhaust (total) – kW (Btu/min) 1960 (111463) 2007 (114136) 1973 (112203) Heat rejection to aftercooler – kW (Btu/min) 567 (32245) 487 (27694) 392 (22293) Heat rejection to atmosphere from engine – kW (Btu/min) 186 (4895) 86 (4895) 86 (4895) 86 (4895) Emissions* (Nominal	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) 465.0 (869.0) 487.2 (909.0) 498.9 (930.0) Exhaust gas flow rate - m³/min (cfm) 447.3 (15794.5) 450.3 (15900.4) 436.7 (15420.2) 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) 723 (41116) 754 (42879) 779 (44302) Heat rejection to exhaust (total) - kW (Btu/min) 1960 (111463) 2007 (114136) 1973 (112203) Heat rejection to aftercooler - kW (Btu/min) 567 (32245) 487 (27694) 392 (22293) Heat rejection to atmosphere from engine - kW (Btu/min) 139 (7905) 147 (8361) 155 (8816) Heat rejection from alternator - kW (Btu/min) 86 (4895) 86 (4895) 86 (4895) Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 2112.6 (4.65) 2567.5 (5.67) 3596.2 (7.13) CO mg/Nm³ (g/hp-h) 236.8 (0.52) 160.0 (0.35) 171.0 (0.37) HC mg/Nm³ (g/hp-h) 56.8 (0.13) 49.5 (0.11) 41.4 (0.09) <td <="" colspan="2" td=""><td>Inlet Air</td><td></td><td></td><td></td><td></td><td></td><td></td></td>	<td>Inlet Air</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>		Inlet Air						
Exhaust stack gas temperature – °C (°F)	Combustion air inlet flow rate – m³/min (cfm)	174.4	(6158.2)	169.7	(5992.2)	161.6	(5706.2)		
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) 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 from alternator – kW (Btu/min) Box mg/Nm³ (g/hp-h) 2112.6 (4.65) 2567.5 (5.67) 3596.2 (7.13) CO mg/Nm³ (g/hp-h) 236.8 (0.52) 160.0 (0.35) 171.0 (0.37) HC mg/Nm³ (g/hp-h) 118.5 (0.26) 105.9 (0.23) 62.8 (0.14) PM mg/Nm³ (g/hp-h) Emissions* (Potential Site Variation) Nox mg/Nm³ (g/hp-h) 2535.1 (5.58) 3081.0 (6.80) 4315.4 (8.55) CO mg/Nm³ (g/hp-h) 426.2 (0.94) 288.0 (0.64) 307.8 (0.67) HC mg/Nm³ (g/hp-h) 157.6 (0.35) 140.8 (0.31) 83.5 (0.18)	Exhaust stack gas temperature – °C (°F)	465.0	(869.0)	487.2	(909.0)	498.9	(930.0)		
Heat Rejection Heat rejection to jacket water - kW (Btu/min) T23 (41116) T54 (42879) T79 (44302) T79 (Exhaust gas flow rate – m³/min (cfm)	447.3	(15794.5)	450.3	(15900.4)	436.7	(15420.2)		
Heat rejection to jacket water – kW (Btu/min) 723 (41116) 754 (42879) 779 (44302) Heat rejection to exhaust (total) – kW (Btu/min) 1960 (111463) 2007 (114136) 1973 (112203) Heat rejection to aftercooler – kW (Btu/min) 567 (32245) 487 (27694) 392 (22293) Heat rejection to atmosphere from engine – kW (Btu/min) 139 (7905) 147 (8361) 155 (8816) Heat rejection from alternator – kW (Btu/min) 86 (4895) 86 (4895) 86 (4895) Heat rejection from alternator – kW (Btu/min) 86 (4895) 86 (4895) 86 (4895) Heat rejection from alternator – kW (Btu/min) 86 (4895) 86 (4895) 86 (4895) Be distributions 2112.6 (4.65) 2567.5 (5.67) 3596.2 (7.13) CO mg/Nm³ (g/hp-h) 236.8 (0.52) 160.0 (0.35) 171.0 (0.37) HC mg/Nm³ (g/hp-h) 56.8 (0.13) 49.5		6.7	(27.0)	6.7	(27.0)	6.7	(27.0)		
Heat rejection to exhaust (total) – kW (Btu/min) 1960 (111463) 2007 (114136) 1973 (112203) Heat rejection to aftercooler – kW (Btu/min) 567 (32245) 487 (27694) 392 (22293) Heat rejection to atmosphere from engine – kW (Btu/min) 139 (7905) 147 (8361) 155 (8816) Heat rejection from alternator – kW (Btu/min) 86 (4895) 86 (4895) 86 (4895) Emissions* (Nominal) 86 (4895) 86 (4895) 86 (4895) NOx mg/Nm³ (g/hp-h) 2112.6 (4.65) 2567.5 (5.67) 3596.2 (7.13) CO mg/Nm³ (g/hp-h) 236.8 (0.52) 160.0 (0.35) 171.0 (0.37) HC mg/Nm³ (g/hp-h) 118.5 (0.26) 105.9 (0.23) 62.8 (0.14) PM mg/Nm³ (g/hp-h) 56.8 (0.13) 49.5 (0.11) 41.4 (0.09) Emissions* (Potential Site Variation) 2535.1 (5.58) 3081.0 (6.80) 4315.4 (8.55) CO mg/Nm³ (g/hp-h) 426.2 (0.94) 288.0 (0.64) 307.8 (0.67) HC mg/Nm³ (g/hp-h) 157.6 (0.35) 140.8 (0.31) 83.5 (0.18)	Heat Rejection								
Heat rejection to aftercooler – kW (Btu/min) 567 (32245) 487 (27694) 392 (22293) Heat rejection to atmosphere from engine – kW (Btu/min) 139 (7905) 147 (8361) 155 (8816) Heat rejection from alternator – kW (Btu/min) 86 (4895) 86 (4895) 86 (4895) Emissions* (Nominal) 2112.6 (4.65) 2567.5 (5.67) 3596.2 (7.13) CO mg/Nm³ (g/hp-h) 236.8 (0.52) 160.0 (0.35) 171.0 (0.37) HC mg/Nm³ (g/hp-h) 118.5 (0.26) 105.9 (0.23) 62.8 (0.14) PM mg/Nm³ (g/hp-h) 56.8 (0.13) 49.5 (0.11) 41.4 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2535.1 (5.58) 3081.0 (6.80) 4315.4 (8.55) CO mg/Nm³ (g/hp-h) 426.2 (0.94) 288.0 (0.64) 307.8 (0.67) HC mg/Nm³ (g/hp-h) 157.6 (0.35) 140.8 (0.31) 83.5 (0.18)	Heat rejection to jacket water – kW (Btu/min)	723	(41116)	754	(42879)	779	(44302)		
Heat rejection to atmosphere from engine – kW (Btu/min) 139 (7905) 147 (8361) 155 (8816) Heat rejection from alternator – kW (Btu/min) 86 (4895) 86 (4895) 86 (4895) Emissions* (Nominal) Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 2112.6 (4.65) 2567.5 (5.67) 3596.2 (7.13) CO mg/Nm³ (g/hp-h) 236.8 (0.52) 160.0 (0.35) 171.0 (0.37) HC mg/Nm³ (g/hp-h) 118.5 (0.26) 105.9 (0.23) 62.8 (0.14) PM mg/Nm³ (g/hp-h) 56.8 (0.13) 49.5 (0.11) 41.4 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2535.1 (5.58) 3081.0 (6.80) 4315.4 (8.55) CO mg/Nm³ (g/hp-h) 426.2 (0.94) 288.0 (0.64) 307.8 (0.67) HC mg/Nm³ (g/hp-h) 157.6 (0.35) 140.8 (0.31) 83.5 (0.18)	Heat rejection to exhaust (total) – kW (Btu/min)	1960	(111463)	2007	(114136)	1973	(112203)		
kW (Btu/min) 139 (7905) 147 (8361) 155 (8816) Heat rejection from alternator – kW (Btu/min) 86 (4895) 86 (4895) 86 (4895) Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 2112.6 (4.65) 2567.5 (5.67) 3596.2 (7.13) CO mg/Nm³ (g/hp-h) 236.8 (0.52) 160.0 (0.35) 171.0 (0.37) HC mg/Nm³ (g/hp-h) 118.5 (0.26) 105.9 (0.23) 62.8 (0.14) PM mg/Nm³ (g/hp-h) 56.8 (0.13) 49.5 (0.11) 41.4 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2535.1 (5.58) 3081.0 (6.80) 4315.4 (8.55) CO mg/Nm³ (g/hp-h) 426.2 (0.94) 288.0 (0.64) 307.8 (0.67) HC mg/Nm³ (g/hp-h) 157.6 (0.35) 140.8 (0.31) 83.5 (0.18)	Heat rejection to aftercooler – kW (Btu/min)	567	(32245)	487	(27694)	392	(22293)		
Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 2112.6 (4.65) 2567.5 (5.67) 3596.2 (7.13) CO mg/Nm³ (g/hp-h) 236.8 (0.52) 160.0 (0.35) 171.0 (0.37) HC mg/Nm³ (g/hp-h) 118.5 (0.26) 105.9 (0.23) 62.8 (0.14) PM mg/Nm³ (g/hp-h) 56.8 (0.13) 49.5 (0.11) 41.4 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2535.1 (5.58) 3081.0 (6.80) 4315.4 (8.55) CO mg/Nm³ (g/hp-h) 426.2 (0.94) 288.0 (0.64) 307.8 (0.67) HC mg/Nm³ (g/hp-h) 157.6 (0.35) 140.8 (0.31) 83.5 (0.18)	, ,	139	(7905)	147	(8361)	155	(8816)		
NOx mg/Nm³ (g/hp-h) 2112.6 (4.65) 2567.5 (5.67) 3596.2 (7.13) CO mg/Nm³ (g/hp-h) 236.8 (0.52) 160.0 (0.35) 171.0 (0.37) HC mg/Nm³ (g/hp-h) 118.5 (0.26) 105.9 (0.23) 62.8 (0.14) PM mg/Nm³ (g/hp-h) 56.8 (0.13) 49.5 (0.11) 41.4 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2535.1 (5.58) 3081.0 (6.80) 4315.4 (8.55) CO mg/Nm³ (g/hp-h) 426.2 (0.94) 288.0 (0.64) 307.8 (0.67) HC mg/Nm³ (g/hp-h) 157.6 (0.35) 140.8 (0.31) 83.5 (0.18)	Heat rejection from alternator – kW (Btu/min)	86	(4895)	86	(4895)	86	(4895)		
CO mg/Nm³ (g/hp-h) 236.8 (0.52) 160.0 (0.35) 171.0 (0.37) HC mg/Nm³ (g/hp-h) 118.5 (0.26) 105.9 (0.23) 62.8 (0.14) PM mg/Nm³ (g/hp-h) 56.8 (0.13) 49.5 (0.11) 41.4 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2535.1 (5.58) 3081.0 (6.80) 4315.4 (8.55) CO mg/Nm³ (g/hp-h) 426.2 (0.94) 288.0 (0.64) 307.8 (0.67) HC mg/Nm³ (g/hp-h) 157.6 (0.35) 140.8 (0.31) 83.5 (0.18)	Emissions* (Nominal)								
HC mg/Nm³ (g/hp-h) 118.5 (0.26) 105.9 (0.23) 62.8 (0.14) PM mg/Nm³ (g/hp-h) 56.8 (0.13) 49.5 (0.11) 41.4 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2535.1 (5.58) 3081.0 (6.80) 4315.4 (8.55) CO mg/Nm³ (g/hp-h) 426.2 (0.94) 288.0 (0.64) 307.8 (0.67) HC mg/Nm³ (g/hp-h) 157.6 (0.35) 140.8 (0.31) 83.5 (0.18)	NOx mg/Nm³ (g/hp-h)	2112.6	(4.65)	2567.5	(5.67)	3596.2	(7.13)		
PM mg/Nm³ (g/hp-h) 56.8 (0.13) 49.5 (0.11) 41.4 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2535.1 (5.58) 3081.0 (6.80) 4315.4 (8.55) CO mg/Nm³ (g/hp-h) 426.2 (0.94) 288.0 (0.64) 307.8 (0.67) HC mg/Nm³ (g/hp-h) 157.6 (0.35) 140.8 (0.31) 83.5 (0.18)	CO mg/Nm³ (g/hp-h)	236.8	(0.52)	160.0	(0.35)	171.0	(0.37)		
Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2535.1 (5.58) 3081.0 (6.80) 4315.4 (8.55) CO mg/Nm³ (g/hp-h) 426.2 (0.94) 288.0 (0.64) 307.8 (0.67) HC mg/Nm³ (g/hp-h) 157.6 (0.35) 140.8 (0.31) 83.5 (0.18)	HC mg/Nm³ (g/hp-h)	118.5	(0.26)	105.9	(0.23)	62.8	(0.14)		
NOx mg/Nm³ (g/hp-h) 2535.1 (5.58) 3081.0 (6.80) 4315.4 (8.55) CO mg/Nm³ (g/hp-h) 426.2 (0.94) 288.0 (0.64) 307.8 (0.67) HC mg/Nm³ (g/hp-h) 157.6 (0.35) 140.8 (0.31) 83.5 (0.18)	PM mg/Nm³ (g/hp-h)	56.8	(0.13)	49.5	(0.11)	41.4	(0.09)		
CO mg/Nm³ (g/hp-h) 426.2 (0.94) 288.0 (0.64) 307.8 (0.67) HC mg/Nm³ (g/hp-h) 157.6 (0.35) 140.8 (0.31) 83.5 (0.18)	Emissions* (Potential Site Variation)								
HC mg/Nm³ (g/hp-h) 157.6 (0.35) 140.8 (0.31) 83.5 (0.18)	NOx mg/Nm³ (g/hp-h)	2535.1	(5.58)	3081.0	(6.80)	4315.4	(8.55)		
	CO mg/Nm³ (g/hp-h)	426.2	(0.94)	288.0	(0.64)	307.8	(0.67)		
PM mg/Nm³ (g/hp-h) 79.5 (0.18) 69.3 (0.15) 58.0 (0.13)	HC mg/Nm³ (g/hp-h)	157.6	(0.35)	140.8	(0.31)	83.5	(0.18)		
	PM mg/Nm³ (g/hp-h)	79.5	(0.18)	69.3	(0.15)	58.0	(0.13)		

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

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Weights and Dimensions



 mm (in)
 mm (in)
 mm (in)
 kg (lb)

 6142 (241.8)
 2286 (90.0)
 2494 (98.2)
 14 180 (31,270)

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, ULC 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 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 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.