Cat® 3512B

Diesel Generator Sets





| Bore – mm (in) | 170 (6.69) |
|------------------------|-------------|
| Stroke – mm (in) | 190 (7.48) |
| Displacement – L (in³) | 51.8 (3161) |
| 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 |
|------------------------------|---|
| 1275 (1593) | 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 | Cat Connect | | | |
| Air Cleaner □ Single element □ Dual element □ Heavy duty | Type □ Bus bar □ Circuit breaker □ 1600A □ 3000A | Connectivity ☐ Ethernet ☐ Cellular | | | |
| Muffler ☐ Industrial grade (15 dB) Starting ☐ Standard batteries ☐ Oversized batteries | □ 2000A □ 3200A □ 1EC | Extended Service Options | | | |
| | ☐ UL ☐ 4-pole ☐ 3-pole ☐ Manually operated | Terms ☐ 2 year (prime) ☐ 3 year ☐ 5 year | | | |
| | ☐ Electrically operated | ☐ 10 year | | | |
| □ Standard electric starter(s)□ Dual electric starter(s)□ Air starter(s)□ Jacket water heater | Trip Unit LSI LSI-G LSIG-P | Coverage ☐ Silver ☐ Gold | | | |
| Alternator | Control System | ☐ Platinum ☐ Platinum Plus | | | |
| Output voltage | Controller | | | | |
| □ 380V □ 6600V □ 440V □ 6900V □ 480V □ 12470V □ 600V □ 13200V □ 4160V □ 13800V Temperature Rise (over 40°C ambient) □ 150°C □ 125°C/130°C □ 105°C □ 80°C | ☐ Cat ECS 100 ☐ Cat ECS 200 ☐ EMCP 4.4 | Ancillary Equipment Automatic transfer switch | | | |
| | Attachments ☐ Local annunciator module ☐ Remote annunciator module | (ATS)□ Paralleling switchgear□ Paralleling controls | | | |
| | ☐ Expansion I/O module | Certifications | | | |
| | ☐ Remote monitoring software | ☐ ULC 2200 Listed | | | |
| | Charging | ☐ IBC seismic certification | | | |
| | □ Battery charger – 10A□ Battery charger – 20A□ Battery charger – 35A | | | | |
| Winding type | | | | | |
| □ Random wound □ Form wound | Vibration Isolators | | | | |
| Excitation ☐ Internal excitation (IE) ☐ Permanent magnet (PM) | □ Spring □ Seismic rated | | | | |
| Attachments ☐ Anti-condensation heater | | | | | |

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

☐ Stator and bearing temperature monitoring and protection

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Package Performance

| Performance | Prim | ne-DCP | Prim | e-DCP | Prim | ne-DCP | |
|---|----------|-----------|-----------|-----------|-----------|-----------|--|
| Frequency | 6 | 60 Hz | | 60 Hz | | 60 Hz | |
| Gen set power rating with fan | 1275 ekW | | 1275 ekW | | 1275 ekW | | |
| Gen set power rating with fan @ 0.8 power factor | 1594 kVA | | 1594 kVA | | 1594 kVA | | |
| Emissions | Lov | w Fuel | Low Fuel | | Low Fuel | | |
| Performance number | EM5 | 943-00 | EM5944-00 | | EM5945-00 | | |
| Aftercooler (separate circuit) – °C (°F) | 30 | (86) | 60 | (140) | 90 | (194) | |
| Fuel Consumption | | | | | | | |
| 100% load with fan – L/hr (gal/hr) | 331.0 | (87.4) | 333.3 | (88.1) | 336.2 | (88.8) | |
| 75% load with fan – L/hr (gal/hr) | 246.9 | (65.2) | 248.0 | (65.5) | 248.7 | (65.7) | |
| 50% load with fan – L/hr (gal/hr) | 172.7 | (45.6) | 175.4 | (46.3) | 177.4 | (46.9) | |
| 25% load with fan – L/hr (gal/hr) | 108.0 | (28.5) | 108.6 | (28.6) | 110.3 | (29.1) | |
| 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) | 1611 | (56891) | 1611 | (56891) | 1611 | (56891) | |
| Engine coolant capacity – L (gal) | 156.8 | (41.4) | 156.8 | (41.4) | 156.8 | (41.4) | |
| Radiator coolant capacity – L (gal) | 146.0 | (38.6) | 146.0 | (38.6) | 146.0 | (38.6) | |
| Total coolant capacity – L (gal) | 302.8 | (80.0) | 302.8 | (80.0) | 302.8 | (80.0) | |
| Inlet Air | | | | | | | |
| Combustion air inlet flow rate – m³/min (cfm) | 120.2 | (4244.3) | 118.8 | (4194.9) | 116.6 | (4117.2) | |
| Exhaust System | | | | | | | |
| Exhaust stack gas temperature – °C (°F) | 416.2 | (781.2) | 436.2 | (817.2) | 459.9 | (859.8) | |
| Exhaust gas flow rate – m³/min (cfm) | 291.3 | (10285.9) | 296.4 | (10466.0) | 300.7 | (10617.8) | |
| 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) | 532 | (30254) | 559 | (31789) | 591 | (33609) | |
| Heat rejection to exhaust (total) – kW (Btu/min) | 1217 | (69208) | 1259 | (71597) | 1308 | (74383) | |
| Heat rejection to aftercooler – kW (Btu/min) | 376 | (21383) | 317 | (18027) | 269 | (15298) | |
| Heat rejection to atmosphere from engine – kW (Btu/min) | 116 | (6596) | 124 | (7051) | 136 | (7735) | |
| Heat rejection from alternator – kW (Btu/min) | 64 | (3657) | 64 | (3657) | 64 | (3657) | |
| Emissions* (Nominal) | | | | | | | |
| NOx mg/Nm³ (g/hp-h) | 2732.4 | (5.81) | 3361.9 | (7.19) | 4152.9 | (8.97) | |
| CO mg/Nm³ (g/hp-h) | 700.8 | (1.49) | 687.4 | (1.47) | 667.4 | (1.44) | |
| HC mg/Nm³ (g/hp-h) | 128.8 | (0.27) | 126.5 | (0.27) | 123.1 | (0.27) | |
| PM mg/Nm³ (g/hp-h) | 63.3 | (0.13) | 49.4 | (0.11) | 41.8 | (0.09) | |
| Emissions* (Potential Site Variation) | | | | | | | |
| NOx mg/Nm³ (g/hp-h) | 3278.9 | (6.97) | 4034.4 | (8.63) | 4983.5 | (10.77) | |
| CO mg/Nm³ (g/hp-h) | 1261.4 | (2.68) | 1237.3 | (2.65) | 1201.3 | (2.60) | |
| HC mg/Nm³ (g/hp-h) | 171.3 | (0.36) | 168.2 | (0.36) | 163.7 | (0.35) | |
| PM mg/Nm³ (g/hp-h) | 88.6 | (0.19) | 69.2 | (0.15) | 58.5 | (0.13) | |
| | | | | | | | |

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

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Package Performance

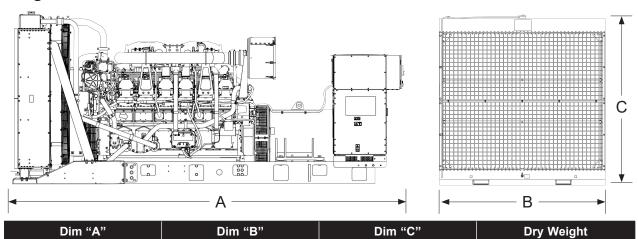
| Frequency | Performance | Prim | e-DCP | Prim | e-DCP | Prim | ne-DCP | |
|--|--|---------------|-----------|---------------|-----------|---------------|-----------|--|
| Sen set power rating with fan @ 0.8 power factor | Frequency | 60 | | | | | | |
| D.8 power factor | Gen set power rating with fan | | | | | | | |
| Performance number | | 1594 kVA | | 1594 kVA | | 1594 kVA | | |
| Aftercooler (separate circuit) - °C (°F) 30 (86) 60 (140) 90 (194) | Emissions | Low Emissions | | Low Emissions | | Low Emissions | | |
| Fuel Consumption 100% load with fan - L/hr (gal/hr) 357.0 (94.3) 345.6 (91.3) 335.3 (88.6) 75% load with fan - L/hr (gal/hr) 262.8 (69.4) 261.6 (69.1) 264.3 (69.8) 25% load with fan - L/hr (gal/hr) 178.4 (47.1) 178.2 (47.1) 189.8 (50.1) 25% load with fan - L/hr (gal/hr) 110.2 (29.1) 109.2 (28.9) 115.6 (30.5) (30.5) (30.6) (3 | Performance number | EM5 | 946-00 | EM5947-00 | | EM5948-00 | | |
| 100% load with fan - L/hr (gal/hr) 357.0 (94.3) 345.6 (91.3) 335.3 (88.6) 75% load with fan - L/hr (gal/hr) 262.8 (69.4) 261.6 (69.1) 264.3 (69.8) 50% load with fan - L/hr (gal/hr) 178.4 (47.1) 178.2 (47.1) 189.8 (50.1) 25% load with fan - L/hr (gal/hr) 110.2 (29.1) 109.2 (28.9) 115.6 (30.5) Cooling System Radiator air flow restriction (system) - | Aftercooler (separate circuit) – °C (°F) | 30 | (86) | 60 | (140) | 90 | (194) | |
| T5% load with fan - L/hr (gal/hr) | Fuel Consumption | | | | | | | |
| 50% load with fan – L/hr (gal/hr) | 100% load with fan – L/hr (gal/hr) | 357.0 | (94.3) | 345.6 | (91.3) | 335.3 | (88.6) | |
| 25% load with fan - L/hr (gal/hr) | 75% load with fan – L/hr (gal/hr) | 262.8 | (69.4) | 261.6 | (69.1) | 264.3 | (69.8) | |
| Radiator air flow restriction (system) | 50% load with fan – L/hr (gal/hr) | 178.4 | (47.1) | 178.2 | (47.1) | 189.8 | (50.1) | |
| Radiator air flow restriction (system) - kPa (in. water) Co.48 C | 25% load with fan – L/hr (gal/hr) | 110.2 | (29.1) | 109.2 | (28.9) | 115.6 | (30.5) | |
| Readiator air flow — m³/min (cfm) 1611 (56891) 1629 (4410.3) | Cooling System | | | | | | | |
| Engine coolant capacity — L (gal) | ` ' ' | 0.12 | (0.48) | 0.12 | (0.48) | 0.12 | (0.48) | |
| Radiator coolant capacity – L (gal) | Radiator air flow – m³/min (cfm) | 1611 | (56891) | 1611 | (56891) | 1611 | (56891) | |
| Total coolant capacity - L (gal) 302.8 (80.0) 302.8 (80.0) 302.8 (80.0) Inlet Air | Engine coolant capacity – L (gal) | 156.8 | (41.4) | 156.8 | (41.4) | 156.8 | (41.4) | |
| Combustion air inlet flow rate - m³/min (cfm) 130.0 (4590.4) 124.9 (4410.3) 116.4 (4110.1) | Radiator coolant capacity – L (gal) | 146.0 | (38.6) | 146.0 | (38.6) | 146.0 | (38.6) | |
| Combustion air inlet flow rate - m³/min (cfm) 130.0 (4590.4) 124.9 (4410.3) 116.4 (4110.1) | Total coolant capacity – L (gal) | 302.8 | (80.0) | 302.8 | (80.0) | 302.8 | (80.0) | |
| Exhaust System Exhaust stack gas temperature – °C (°F) | Inlet Air | | | | | | | |
| Exhaust stack gas temperature – °C (°F) | Combustion air inlet flow rate - m³/min (cfm) | 130.0 | (4590.4) | 124.9 | (4410.3) | 116.4 | (4110.1) | |
| Exhaust gas flow rate — m³/min (cfm) 328.5 (11599.4) 313.5 (11069.8) 299.2 (10564.9) Exhaust system backpressure (maximum allowable) — kPa (in. water) 6.7 (27.0) 6.7 | Exhaust System | | | | | | | |
| Exhaust system backpressure (maximum allowable) – kPa (in. water) Heat Rejection Heat rejection to jacket water – kW (Btu/min) 561 (31902) 578 (32871) 593 (33724) Heat rejection to exhaust (total) – kW (Btu/min) 1397 (79445) 1356 (77112) 1314 (74724) Heat rejection to aftercooler – kW (Btu/min) 437 (24851) 358 (20358) 271 (15411) Heat rejection to atmosphere from engine – kW (Btu/min) 64 (3657) 64 (3657) 64 (3657) Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 1962.6 (4.50) 2768.8 (6.16) 4290.7 (9.24) CO mg/Nm³ (g/hp-h) 129.0 (0.30) 127.9 (0.28) 123.3 (0.27) PM mg/Nm³ (g/hp-h) 86.6 (0.20) 59.8 (0.13) 42.0 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2355.1 (5.40) 3322.5 (7.39) 5148.8 (11.09) CO mg/Nm³ (g/hp-h) 1263.6 (2.90) 1252.1 (2.79) 1204.0 (2.59) HC mg/Nm³ (g/hp-h) 171.6 (0.39) 170.1 (0.38) 164.0 (0.35) | Exhaust stack gas temperature – °C (°F) | 446.3 | (835.3) | 441.1 | (826.0) | 457.2 | (855.0) | |
| Heat Rejection Heat rejection to jacket water - kW (Btu/min) S61 (31902) 578 (32871) 593 (33724) Heat rejection to exhaust (total) - kW (Btu/min) 1397 (79445) 1356 (77112) 1314 (74724) Heat rejection to aftercooler - kW (Btu/min) 437 (24851) 358 (20358) 271 (15411) Heat rejection to atmosphere from engine - kW (Btu/min) 437 (7166) 133 (7563) 137 (7792) Heat rejection from alternator - kW (Btu/min) 64 (3657) 64 (3657) 64 (3657) Emissions* (Nominal) | Exhaust gas flow rate – m³/min (cfm) | 328.5 | (11599.4) | 313.5 | (11069.8) | 299.2 | (10564.9) | |
| Heat rejection to jacket water – kW (Btu/min) 561 (31902) 578 (32871) 593 (33724) Heat rejection to exhaust (total) – kW (Btu/min) 1397 (79445) 1356 (77112) 1314 (74724) Heat rejection to aftercooler – kW (Btu/min) 437 (24851) 358 (20358) 271 (15411) Heat rejection to atmosphere from engine – kW (Btu/min) 126 (7166) 133 (7563) 137 (7792) Heat rejection from alternator – kW (Btu/min) 64 (3657) 64 (3657) 64 (3657) Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 1962.6 (4.50) 2768.8 (6.16) 4290.7 (9.24) CO mg/Nm³ (g/hp-h) 702.0 (1.61) 695.6 (1.55) 668.9 (1.44) HC mg/Nm³ (g/hp-h) 129.0 (0.30) 127.9 (0.28) 123.3 (0.27) PM mg/Nm³ (g/hp-h) 86.6 (0.20) 59.8 (0.13) 42.0 (0.09) Emissions* (Potential Site Variation) (5.40) 3322.5 | | 6.7 | (27.0) | 6.7 | (27.0) | 6.7 | (27.0) | |
| Heat rejection to exhaust (total) – kW (Btu/min) 1397 (79445) 1356 (77112) 1314 (74724) Heat rejection to aftercooler – kW (Btu/min) 437 (24851) 358 (20358) 271 (15411) Heat rejection to atmosphere from engine – kW (Btu/min) 126 (7166) 133 (7563) 137 (7792) Heat rejection from alternator – kW (Btu/min) 64 (3657) 64 (3657) 64 (3657) Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 1962.6 (4.50) 2768.8 (6.16) 4290.7 (9.24) CO mg/Nm³ (g/hp-h) 702.0 (1.61) 695.6 (1.55) 668.9 (1.44) HC mg/Nm³ (g/hp-h) 129.0 (0.30) 127.9 (0.28) 123.3 (0.27) PM mg/Nm³ (g/hp-h) 86.6 (0.20) 59.8 (0.13) 42.0 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2355.1 (5.40) 3322.5 (7.39) 5148.8 (11.09) CO mg/Nm³ (g/hp-h) 1263.6 (2.90) 1252.1 (2.79) 1204.0 (2.59) HC mg/Nm³ (g/hp-h) 171.6 (0.39) 170.1 (0.38) 164.0 (0.35) | Heat Rejection | 1 | | | | | | |
| Heat rejection to aftercooler – kW (Btu/min) 437 (24851) 358 (20358) 271 (15411) Heat rejection to atmosphere from engine – kW (Btu/min) 126 (7166) 133 (7563) 137 (7792) Heat rejection from alternator – kW (Btu/min) 64 (3657) 64 (3657) 64 (3657) Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 1962.6 (4.50) 2768.8 (6.16) 4290.7 (9.24) CO mg/Nm³ (g/hp-h) 702.0 (1.61) 695.6 (1.55) 668.9 (1.44) HC mg/Nm³ (g/hp-h) 129.0 (0.30) 127.9 (0.28) 123.3 (0.27) PM mg/Nm³ (g/hp-h) 86.6 (0.20) 59.8 (0.13) 42.0 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2355.1 (5.40) 3322.5 (7.39) 5148.8 (11.09) CO mg/Nm³ (g/hp-h) 1263.6 (2.90) 1252.1 (2.79) 1204.0 (2.59) HC mg/Nm³ (g/hp-h) 171.6 (0.39) 170.1 (0.38) 164.0 (0.35) | Heat rejection to jacket water – kW (Btu/min) | 561 | (31902) | 578 | (32871) | 593 | (33724) | |
| Heat rejection to atmosphere from engine – kW (Btu/min) Heat rejection from alternator – kW (Btu/min) Heat rejection from alternator – kW (Btu/min) Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 1962.6 (4.50) 133 (7563) 137 (7792) 64 (3657) 64 (3657) 64 (3657) Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 1962.6 (4.50) 2768.8 (6.16) 4290.7 (9.24) CO mg/Nm³ (g/hp-h) 129.0 (0.30) 127.9 (0.28) 123.3 (0.27) PM mg/Nm³ (g/hp-h) 86.6 (0.20) 59.8 (0.13) 42.0 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2355.1 (5.40) 3322.5 (7.39) 5148.8 (11.09) CO mg/Nm³ (g/hp-h) 1263.6 (2.90) 1252.1 (2.79) 1204.0 (2.59) HC mg/Nm³ (g/hp-h) 171.6 (0.39) 170.1 (0.38) 164.0 (0.35) | Heat rejection to exhaust (total) – kW (Btu/min) | 1397 | (79445) | 1356 | (77112) | 1314 | (74724) | |
| kW (Btu/min) 126 (7166) 133 (7563) 137 (7792) Heat rejection from alternator – kW (Btu/min) 64 (3657) 64 (3657) 64 (3657) Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 1962.6 (4.50) 2768.8 (6.16) 4290.7 (9.24) CO mg/Nm³ (g/hp-h) 702.0 (1.61) 695.6 (1.55) 668.9 (1.44) HC mg/Nm³ (g/hp-h) 129.0 (0.30) 127.9 (0.28) 123.3 (0.27) PM mg/Nm³ (g/hp-h) 86.6 (0.20) 59.8 (0.13) 42.0 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2355.1 (5.40) 3322.5 (7.39) 5148.8 (11.09) CO mg/Nm³ (g/hp-h) 1263.6 (2.90) 1252.1 (2.79) 1204.0 (2.59) HC mg/Nm³ (g/hp-h) 171.6 (0.39) 170.1 (0.38) 164.0 (0.35) | Heat rejection to aftercooler – kW (Btu/min) | 437 | (24851) | 358 | (20358) | 271 | (15411) | |
| Emissions* (Nominal) NOx mg/Nm³ (g/hp-h) 1962.6 (4.50) 2768.8 (6.16) 4290.7 (9.24) CO mg/Nm³ (g/hp-h) 702.0 (1.61) 695.6 (1.55) 668.9 (1.44) HC mg/Nm³ (g/hp-h) 129.0 (0.30) 127.9 (0.28) 123.3 (0.27) PM mg/Nm³ (g/hp-h) 86.6 (0.20) 59.8 (0.13) 42.0 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2355.1 (5.40) 3322.5 (7.39) 5148.8 (11.09) CO mg/Nm³ (g/hp-h) 1263.6 (2.90) 1252.1 (2.79) 1204.0 (2.59) HC mg/Nm³ (g/hp-h) 171.6 (0.39) 170.1 (0.38) 164.0 (0.35) | | 126 | (7166) | 133 | (7563) | 137 | (7792) | |
| NOx mg/Nm³ (g/hp-h) 1962.6 (4.50) 2768.8 (6.16) 4290.7 (9.24) CO mg/Nm³ (g/hp-h) 702.0 (1.61) 695.6 (1.55) 668.9 (1.44) HC mg/Nm³ (g/hp-h) 129.0 (0.30) 127.9 (0.28) 123.3 (0.27) PM mg/Nm³ (g/hp-h) 86.6 (0.20) 59.8 (0.13) 42.0 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2355.1 (5.40) 3322.5 (7.39) 5148.8 (11.09) CO mg/Nm³ (g/hp-h) 1263.6 (2.90) 1252.1 (2.79) 1204.0 (2.59) HC mg/Nm³ (g/hp-h) 171.6 (0.39) 170.1 (0.38) 164.0 (0.35) | | 64 | (3657) | 64 | (3657) | 64 | (3657) | |
| CO mg/Nm³ (g/hp-h) 702.0 (1.61) 695.6 (1.55) 668.9 (1.44) HC mg/Nm³ (g/hp-h) 129.0 (0.30) 127.9 (0.28) 123.3 (0.27) PM mg/Nm³ (g/hp-h) 86.6 (0.20) 59.8 (0.13) 42.0 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2355.1 (5.40) 3322.5 (7.39) 5148.8 (11.09) CO mg/Nm³ (g/hp-h) 1263.6 (2.90) 1252.1 (2.79) 1204.0 (2.59) HC mg/Nm³ (g/hp-h) 171.6 (0.39) 170.1 (0.38) 164.0 (0.35) | Emissions* (Nominal) | | | | | | | |
| HC mg/Nm³ (g/hp-h) 129.0 (0.30) 127.9 (0.28) 123.3 (0.27) PM mg/Nm³ (g/hp-h) 86.6 (0.20) 59.8 (0.13) 42.0 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2355.1 (5.40) 3322.5 (7.39) 5148.8 (11.09) CO mg/Nm³ (g/hp-h) 1263.6 (2.90) 1252.1 (2.79) 1204.0 (2.59) HC mg/Nm³ (g/hp-h) 171.6 (0.39) 170.1 (0.38) 164.0 (0.35) | NOx mg/Nm³ (g/hp-h) | 1962.6 | (4.50) | 2768.8 | (6.16) | 4290.7 | (9.24) | |
| PM mg/Nm³ (g/hp-h) 86.6 (0.20) 59.8 (0.13) 42.0 (0.09) Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2355.1 (5.40) 3322.5 (7.39) 5148.8 (11.09) CO mg/Nm³ (g/hp-h) 1263.6 (2.90) 1252.1 (2.79) 1204.0 (2.59) HC mg/Nm³ (g/hp-h) 171.6 (0.39) 170.1 (0.38) 164.0 (0.35) | CO mg/Nm³ (g/hp-h) | 702.0 | (1.61) | 695.6 | (1.55) | 668.9 | (1.44) | |
| Emissions* (Potential Site Variation) NOx mg/Nm³ (g/hp-h) 2355.1 (5.40) 3322.5 (7.39) 5148.8 (11.09) CO mg/Nm³ (g/hp-h) 1263.6 (2.90) 1252.1 (2.79) 1204.0 (2.59) HC mg/Nm³ (g/hp-h) 171.6 (0.39) 170.1 (0.38) 164.0 (0.35) | HC mg/Nm³ (g/hp-h) | 129.0 | (0.30) | 127.9 | (0.28) | 123.3 | (0.27) | |
| NOx mg/Nm³ (g/hp-h) 2355.1 (5.40) 3322.5 (7.39) 5148.8 (11.09) CO mg/Nm³ (g/hp-h) 1263.6 (2.90) 1252.1 (2.79) 1204.0 (2.59) HC mg/Nm³ (g/hp-h) 171.6 (0.39) 170.1 (0.38) 164.0 (0.35) | PM mg/Nm³ (g/hp-h) | 86.6 | (0.20) | 59.8 | (0.13) | 42.0 | (0.09) | |
| CO mg/Nm³ (g/hp-h) 1263.6 (2.90) 1252.1 (2.79) 1204.0 (2.59) HC mg/Nm³ (g/hp-h) 171.6 (0.39) 170.1 (0.38) 164.0 (0.35) | Emissions* (Potential Site Variation) | | | | | | | |
| HC mg/Nm³ (g/hp-h) 171.6 (0.39) 170.1 (0.38) 164.0 (0.35) | NOx mg/Nm³ (g/hp-h) | 2355.1 | (5.40) | 3322.5 | (7.39) | | (11.09) | |
| | CO mg/Nm³ (g/hp-h) | 1263.6 | (2.90) | 1252.1 | (2.79) | 1204.0 | (2.59) | |
| PM mg/Nm³ (g/hp-h) 121.2 (0.28) 83.7 (0.19) 58.8 (0.13) | HC mg/Nm³ (g/hp-h) | 171.6 | (0.39) | 170.1 | (0.38) | 164.0 | (0.35) | |
| | PM mg/Nm³ (g/hp-h) | 121.2 | (0.28) | 83.7 | (0.19) | 58.8 | (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



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

mm (in)

2286 (90.0)

Ratings Definitions

mm (in)

5487 (216.0)

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

mm (in)

2420 (95.3)

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.

kg (lb)

11 297 (24,906)

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.