# Cat<sup>®</sup> C175-20 Diesel Generator Sets





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	ТА	
Fuel System	Common Rail	
Governor Type	ADEM™ A4	

Image shown may not reflect actual configuration

Prime-DCP 50 Hz kVA (ekW)	Emissions Performance
3600 (2880)	Optimized for Low Fuel Consumption

## Features

#### **Cat® Diesel Engine**

- Designed and optimized for 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

## 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



#### Engine

Air Cleaner

### Muffler

Industrial grade (15 dB)
 Residential grade (25 dB)
 Critical grade (35 dB)

#### Starting

Standard batteries
Oversized batteries
Standard electric starter(s)
Heavy duty electric starter(s)
Dual electric starter(s)
Air starter(s)
Jacket water heater

#### Alternator

#### Output voltage

□ 3300V □ 10000V □ 6300V □ 10500V □ 6600V □ 11000V □ 6900V

# Temperature Rise

(over 40°C ambient) □ 150°C □ 125°C/130°C □ 105°C □ 80°C

### Winding type

Form wound

### Excitation

Dermanent magnet (PM)

### Attachments

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

## **Control System**

#### Controller

❑ Cat ECS 100
 ❑ Cat ECS 200
 ❑ EMCP 4.4

### Attachments

Local annunciator module
 Remote annunciator module
 Expansion I/O module
 Remote monitoring software

## Charging

Battery charger – 20A
 Battery charger – 35A
 Battery charger – 50A

#### **Vibration Isolators**

RubberSpringSeismic rated

### Cat Connect

Connectivity □ Ethernet □ Cellular

#### **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)
 Paralleling switchgear
 Paralleling controls

#### Certifications

EU & GB Declaration of Incorporation
 IBC seismic certification

**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

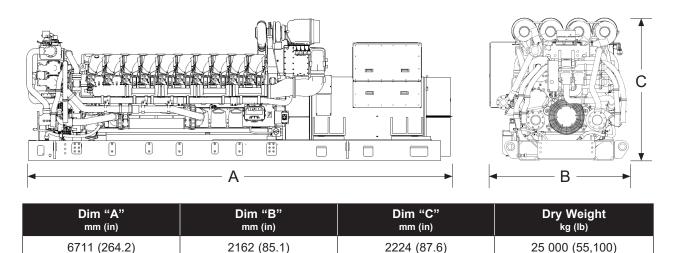
#### Low Fuel Consumption

Performance         Prime-DCP           Frequency         50 Hz           Gen set power rating without fan @         3600 kVA           Gen set power rating without fan @         3600 kVA           Emissions         Low Fuel           Performance number         EM5916-00           Fuel Consumption         EM5916-00           Fuel Consumption         520.1         (182.0)           75% load without fan – L/hr (gal/hr)         568.9         (182.0)           50% load without fan – L/hr (gal/hr)         364.4         (96.3)           25% load without fan – L/hr (gal/hr)         364.4         (96.3)           25% load without fan – L/hr (gal/hr)         364.4         (96.3)           25% load without fan – L/hr (gal/hr)         206.8         (54.6)           Cooling System         E         (8763.9)           Exhaust System         248.2         (8763.9)           Exhaust sack gas temperature – °C (°F)         416.2         (781.2)           Exhaust sack gas temperature – °C (°F)         416.2         (781.2)           Exhaust sack gas temperature – °C (°F)         416.2         (143057)           Heat rejection to jacket water – kW (Btu/min)         1431         (81384)           Heat rejection to aftercooler – kW (Btu/min)					
Gen set power rating without fan         2880 ekW           Gen set power rating without fan @         3600 kVA           Emissions         Low Fuel           Performance number         EM5916-00           Fuel Consumption         688.9         (182.0)           75% load without fan – L/hr (gal/hr)         520.1         (137.4)           50% load without fan – L/hr (gal/hr)         364.4         (96.3)           25% load without fan – L/hr (gal/hr)         364.4         (96.3)           25% load without fan – L/hr (gal/hr)         364.4         (96.3)           25% load without fan – L/hr (gal/hr)         364.4         (96.3)           25% load without fan – L/hr (gal/hr)         248.2         (8763.9)           Engine coolant capacity – L (gal)         440.0         (116.2)           Inlet Air         248.2         (8763.9)           Exhaust System         248.2         (8763.9)           Exhaust stack gas temperature – °C (°F)         416.2         (781.2)           Exhaust stack gas temperature – °C (°F)         416.2         (781.2)           Exhaust system backpressure (maximum allowable) – kPa (in. water)         6.7         (27.0)           Heat rejection to aftercooler – kW (Btu/min)         1431         (81384)           Heat rejection to	Performance	Prim	e-DCP		
Gen set power rating without fan @         3600 kVA           Emissions         Low Fuel           Performance number         EM5916-00           Fuel Consumption         688.9         (182.0)           75% load without fan – L/hr (gal/hr)         520.1         (137.4)           50% load without fan – L/hr (gal/hr)         364.4         (96.3)           25% load without fan – L/hr (gal/hr)         364.4         (96.3)           25% load without fan – L/hr (gal/hr)         206.8         (54.6)           Cooling System         Engine coolant capacity – L (gal)         440.0         (116.2)           Inlet Air         Combustion air inlet flow rate – m³/min (cfm)         248.2         (8763.9)           Exhaust System         Exhaust system backpressure (maximum allowable) – kPa (in. water)         6.7         (27.0)           Exhaust system backpressure (maximum allowable) – kPa (in. water)         1431         (81384)           Heat rejection to jacket water – kW (Btu/min)         1431         (81384)           Heat rejection to aftercooler – kW (Btu/min)         312         (17736)           Heat rejection to aftercooler – kW (Btu/min)         158         (8974)           Heat rejection to atmosphere from engine – kW (Btu/min)         158         (8031)           CO mg/Nm³ (g/hp-h) <td< td=""><td>Frequency</td><td colspan="2">50 Hz</td></td<>	Frequency	50 Hz			
0.8 power factor         Low Fuel           Emissions         Low Fuel           Performance number         EM5916-00           Fuel Consumption         100% load without fan – L/hr (gal/hr)         688.9         (182.0)           75% load without fan – L/hr (gal/hr)         520.1         (137.4)           50% load without fan – L/hr (gal/hr)         364.4         (96.3)           25% load without fan – L/hr (gal/hr)         206.8         (54.6)           Cooling System         206.8         (54.6)           Combustion air inlet flow rate – m³/min (cfm)         248.2         (8763.9)           Exhaust System         248.2         (8763.9)           Exhaust stack gas temperature – °C (°F)         416.2         (781.2)           Exhaust system backpressure (maximum allowable) – kPa (in. water)         6.7         (27.0)           Exhaust system backpressure (maximum allowable) – kPa (in. water)         1431         (81384)           Heat rejection to jacket water – kW (Btu/min)         1431         (81384)           Heat rejection to aftercooler – kW (Btu/min)         112         (17736)           Heat rejection to atmosphere from engine – kW (Btu/min)         158         (8974)           Emissions* (Nominal)         158         (8031           NOx mg/Nm³ (g/hp-h)	Gen set power rating without fan	2880 ekW			
Performance number         EM5916-00           Fuel Consumption         100% load without fan – L/hr (gal/hr)         688.9         (182.0)           75% load without fan – L/hr (gal/hr)         520.1         (137.4)           50% load without fan – L/hr (gal/hr)         364.4         (96.3)           25% load without fan – L/hr (gal/hr)         206.8         (54.6)           Cooling System         206.8         (54.6)           Engine coolant capacity – L (gal)         440.0         (116.2)           Inlet Air         248.2         (8763.9)           Exhaust System         248.2         (8763.9)           Exhaust System         248.2         (8763.9)           Exhaust stack gas temperature – °C (°F)         416.2         (781.2)           Exhaust sack gas temperature – °C (°F)         416.2         (781.2)           Exhaust system backpressure (maximum allowable) – kPa (in. water)         6.7         (27.0)           Heat Rejection         1431         (81384)           Heat rejection to aftercooler – kW (Btu/min)         1431         (81384)           Heat rejection to atmosphere from engine – kW (Btu/min)         312         (10089)           Heat rejection from alternator – kW (Btu/min)         158         (8974)           Heat rejection from alternat		3600 kVA			
Fuel Consumption         688.9         (182.0)           100% load without fan – L/hr (gal/hr)         520.1         (137.4)           50% load without fan – L/hr (gal/hr)         364.4         (96.3)           25% load without fan – L/hr (gal/hr)         206.8         (54.6)           Cooling System         206.8         (54.6)           Cooling System         248.2         (8763.9)           Engine coolant capacity – L (gal)         440.0         (116.2)           Inlet Air         248.2         (8763.9)           Exhaust System         248.2         (8763.9)           Exhaust stack gas temperature – °C (°F)         416.2         (781.2)           Exhaust gas flow rate – m³/min (cfm)         596.1         (21048.2)           Exhaust system backpressure (maximum allowable) – kPa (in. water)         6.7         (27.0)           Heat Rejection         4131         (81384)           Heat rejection to jacket water – kW (Btu/min)         1431         (81384)           Heat rejection to aftercooler – kW (Btu/min)         1431         (81384)           Heat rejection to atmosphere from engine – MY (Btu/min)         158         (8974)           Heat rejection for alternator – kW (Btu/min)         158         (80.3)           CO mg/Nm³ (g/hp-h)         2	Emissions	Low Fuel			
100% load without fan – L/hr (gal/hr)       688.9       (182.0)         75% load without fan – L/hr (gal/hr)       364.4       (96.3)         25% load without fan – L/hr (gal/hr)       206.8       (54.6)         Cooling System       205.8       (37.4)         Engine coolant capacity – L (gal)       440.0       (116.2)         Inlet Air       248.2       (8763.9)         Combustion air inlet flow rate – m³/min (cfm)       248.2       (8763.9)         Exhaust System       248.2       (781.2)         Exhaust gas flow rate – m³/min (cfm)       596.1       (21048.2)         Exhaust gas flow rate – m³/min (cfm)       596.1       (21048.2)         Exhaust system backpressure (maximum allowable) – kPa (in. water)       6.7       (27.0)         Heat Rejection       1431       (81384)         Heat rejection to jacket water – kW (Btu/min)       1431       (81384)         Heat rejection to aftercooler – kW (Btu/min)       1431       (81384)         Heat rejection to aftercooler – kW (Btu/min)       158       (8974)         Emissions* (Nominal)       158       (80.3)       (20.03)         Keturmin'       158       (80.3)       (0.13)       (0.13)       (0.13)         Co mg/Nm³ (g/hp-h)       23.5       (0.0	Performance number	EM5916-00			
75% load without fan – L/hr (gal/hr)         520.1         (137.4)           50% load without fan – L/hr (gal/hr)         364.4         (96.3)           25% load without fan – L/hr (gal/hr)         206.8         (54.6)           Cooling System         206.8         (54.6)           Engine coolant capacity – L (gal)         440.0         (116.2)           Inlet Air         248.2         (8763.9)           Exhaust System         248.2         (8763.9)           Exhaust stack gas temperature – °C (°F)         416.2         (781.2)           Exhaust gas flow rate – m³/min (cfm)         596.1         (21048.2)           Exhaust system backpressure (maximum allowable) – kPa (in. water)         6.7         (27.0)           Heat Rejection         1431         (81384)           Heat rejection to jacket water – kW (Btu/min)         1431         (143057)           Heat rejection to aftercooler – kW (Btu/min)         312         (17736)           Heat rejection to atmosphere from engine – kW (Btu/min)         158         (8974)           Emissions* (Nominal)         158         (803)         (0.66)           NOx mg/Nm³ (g/hp-h)         64.5         (0.13)         (0.66)           PM mg/Nm³ (g/hp-h)         7.2         (0.02)         Emissions* (Potential Site Varia	Fuel Consumption				
50% load without fan – L/hr (gal/hr)         364.4         (96.3)           25% load without fan – L/hr (gal/hr)         206.8         (54.6)           Cooling System         Engine coolant capacity – L (gal)         440.0         (116.2)           Inlet Air         248.2         (8763.9)           Exhaust System         248.2         (781.2)           Exhaust System         596.1         (21048.2)           Exhaust gas flow rate – m³/min (cfm)         596.1         (21048.2)           Exhaust gas flow rate – m³/min (cfm)         596.1         (21048.2)           Exhaust system backpressure (maximum allowable) – kPa (in. water)         6.7         (27.0)           Heat rejection to jacket water – kW (Btu/min)         1431         (81384)           Heat rejection to aftercooler – kW (Btu/min)         312         (17736)           Heat rejection to atmosphere from engine – kW (Btu/min)         158         (8974)           Emissions* (Nominal)         158         (803)         60.06)           PM mg/Nm³ (g/hp-h)         23.5         (0.06)         64.5         (0.13)           HC mg/Nm³ (g/hp-h)         7.2         (0.02)         Emissions* (Potential Site Variation)           NOx mg/Nm³ (g/hp-h)         5134.7         (9.64)         60.07)           <	100% load without fan – L/hr (gal/hr)	688.9	(182.0)		
Item         Item         Item           25% load without fan – L/hr (gal/hr)         206.8         (54.6)           Cooling System         Engine coolant capacity – L (gal)         440.0         (116.2)           Inlet Air         Combustion air inlet flow rate – m³/min (cfm)         248.2         (8763.9)           Exhaust System         Exhaust stack gas temperature – °C (°F)         416.2         (781.2)           Exhaust gas flow rate – m³/min (cfm)         596.1         (21048.2)           Exhaust system backpressure (maximum allowable) – kPa (in. water)         6.7         (27.0)           Heat Rejection         1431         (81384)           Heat rejection to jacket water – kW (Btu/min)         1431         (81384)           Heat rejection to aftercooler – kW (Btu/min)         12         (17736)           Heat rejection to atmosphere from engine – kW (Btu/min)         158         (8974)           Emissions* (Nominal)         158         (803)         (0.06)           NOx mg/Nm³ (g/hp-h)         23.5         (0.06)         (0.02)           Emissions* (Potential Site Variation)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         116.1         (0.24)	75% load without fan – L/hr (gal/hr)	520.1	(137.4)		
Cooling System           Engine coolant capacity – L (gal)         440.0         (116.2)           Inlet Air	50% load without fan – L/hr (gal/hr)	364.4	(96.3)		
Engine coolant capacity – L (gal)         440.0         (116.2)           Inlet Air         -         <	25% load without fan – L/hr (gal/hr)	206.8	(54.6)		
Inlet Air         (1)           Combustion air inlet flow rate – m³/min (cfm)         248.2         (8763.9)           Exhaust System         Exhaust stack gas temperature – °C (°F)         416.2         (781.2)           Exhaust gas flow rate – m³/min (cfm)         596.1         (21048.2)           Exhaust system backpressure (maximum allowable) – kPa (in. water)         6.7         (27.0)           Heat Rejection         1431         (81384)           Heat rejection to jacket water – kW (Btu/min)         1431         (81384)           Heat rejection to acknosphere from engine – kW (Btu/min)         312         (17736)           Heat rejection to atmosphere from engine – kW (Btu/min)         158         (8974)           Emissions* (Nominal)         158         (8974)           Emissions* (Nominal)         23.5         (0.06)           PM mg/Nm³ (g/hp-h)         64.5         (0.13)           HC mg/Nm³ (g/hp-h)         7.2         (0.02)           Emissions* (Potential Site Variation)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         31.2         (0.07)	Cooling System				
Combustion air inlet flow rate – m³/min (cfm)         248.2         (8763.9)           Exhaust System         (21048.2)           Exhaust stack gas temperature – °C (°F)         416.2         (781.2)           Exhaust gas flow rate – m³/min (cfm)         596.1         (21048.2)           Exhaust system backpressure (maximum allowable) – kPa (in. water)         6.7         (27.0)           Heat Rejection         1431         (81384)           Heat rejection to jacket water – kW (Btu/min)         1431         (81384)           Heat rejection to acket water – kW (Btu/min)         1431         (143057)           Heat rejection to aftercooler – kW (Btu/min)         312         (17736)           Heat rejection to atmosphere from engine – kW (Btu/min)         158         (8974)           Emissions* (Nominal)         158         (803)           CO mg/Nm³ (g/hp-h)         4278.9         (8.03)           CO mg/Nm³ (g/hp-h)         23.5         (0.06)           PM mg/Nm³ (g/hp-h)         7.2         (0.02)           Emissions* (Potential Site Variation)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         31.2         (0.07)	Engine coolant capacity – L (gal)	440.0	(116.2)		
Exhaust System           Exhaust stack gas temperature – °C (°F)         416.2 (781.2)           Exhaust gas flow rate – m³/min (cfm)         596.1 (21048.2)           Exhaust system backpressure (maximum allowable) – kPa (in. water)         6.7 (27.0)           Heat Rejection         1431 (81384)           Heat rejection to jacket water – kW (Btu/min)         1431 (81384)           Heat rejection to exhaust (total) – kW (Btu/min)         2516 (143057)           Heat rejection to aftercooler – kW (Btu/min)         312 (17736)           Heat rejection to atmosphere from engine – kW (Btu/min)         177 (10089)           Heat rejection from alternator – kW (Btu/min)         158 (8974)           Emissions* (Nominal)         4278.9 (8.03)           CO mg/Nm³ (g/hp-h)         64.5 (0.13)           HC mg/Nm³ (g/hp-h)         7.2 (0.02)           Emissions* (Potential Site Variation)         5134.7 (9.64)           NOx mg/Nm³ (g/hp-h)         5134.7 (9.64)           CO mg/Nm³ (g/hp-h)         5134.7 (9.64)           CO mg/Nm³ (g/hp-h)         5134.7 (9.64)           CO mg/Nm³ (g/hp-h)         31.2 (0.07)	Inlet Air				
Exhaust stack gas temperature – °C (°F)         416.2         (781.2)           Exhaust gas flow rate – m³/min (cfm)         596.1         (21048.2)           Exhaust system backpressure (maximum allowable) – kPa (in. water)         6.7         (27.0)           Heat Rejection         1431         (81384)           Heat rejection to jacket water – kW (Btu/min)         1431         (81384)           Heat rejection to exhaust (total) – kW (Btu/min)         2516         (143057)           Heat rejection to aftercooler – kW (Btu/min)         312         (17736)           Heat rejection to aftercooler – kW (Btu/min)         158         (8974)           Heat rejection from alternator – kW (Btu/min)         158         (8074)           Heat rejection from alternator – kW (Btu/min)         158         (8074)           Emissions* (Nominal)         158         (8074)           NOx mg/Nm³ (g/hp-h)         4278.9         (8.03)           CO mg/Nm³ (g/hp-h)         23.5         (0.06)           PM mg/Nm³ (g/hp-h)         7.2         (0.02)           Emissions* (Potential Site Variation)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         31.2         (0.07)	Combustion air inlet flow rate – m³/min (cfm)	248.2	(8763.9)		
Exhaust gas flow rate – m³/min (cfm)         596.1         (21048.2)           Exhaust system backpressure (maximum allowable) – kPa (in. water)         6.7         (27.0)           Heat Rejection         1431         (81384)           Heat rejection to jacket water – kW (Btu/min)         1431         (81384)           Heat rejection to exhaust (total) – kW (Btu/min)         2516         (143057)           Heat rejection to aftercooler – kW (Btu/min)         312         (17736)           Heat rejection to aftercooler – kW (Btu/min)         312         (17736)           Heat rejection to atmosphere from engine – kW (Btu/min)         177         (10089)           Heat rejection from alternator – kW (Btu/min)         158         (8974)           Emissions* (Nominal)         4278.9         (8.03)           CO mg/Nm³ (g/hp-h)         4278.9         (0.03)           HC mg/Nm³ (g/hp-h)         7.2         (0.02)           Emissions* (Potential Site Variation)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         31.2         (0.07)	Exhaust System				
Exhaust system backpressure (maximum allowable) – kPa (in. water)         6.7         (27.0)           Heat Rejection         -         -         (27.0)           Heat Rejection         1431         (81384)           Heat rejection to jacket water – kW (Btu/min)         1431         (81384)           Heat rejection to exhaust (total) – kW (Btu/min)         2516         (143057)           Heat rejection to aftercooler – kW (Btu/min)         312         (17736)           Heat rejection to atmosphere from engine – kW (Btu/min)         177         (10089)           Heat rejection from alternator – kW (Btu/min)         158         (8974)           Emissions* (Nominal)         158         (803)           CO mg/Nm³ (g/hp-h)         4278.9         (8.03)           CO mg/Nm³ (g/hp-h)         23.5         (0.06)           PM mg/Nm³ (g/hp-h)         7.2         (0.02)           Emissions* (Potential Site Variation)         5134.7         (9.64)           NOx mg/Nm³ (g/hp-h)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         116.1         (0.24)           HC mg/Nm³ (g/hp-h)         31.2         (0.07)	Exhaust stack gas temperature – °C (°F)	416.2	(781.2)		
allowable) – kPa (in. water)       6.7       (27.0)         Heat Rejection       1431       (81384)         Heat rejection to jacket water – kW (Btu/min)       1431       (81384)         Heat rejection to exhaust (total) – kW (Btu/min)       2516       (143057)         Heat rejection to aftercooler – kW (Btu/min)       312       (17736)         Heat rejection to aftercooler – kW (Btu/min)       312       (17089)         Heat rejection to atmosphere from engine – kW (Btu/min)       177       (10089)         Heat rejection from alternator – kW (Btu/min)       158       (8974)         Emissions* (Nominal)       158       (803)         CO mg/Nm³ (g/hp-h)       4278.9       (8.03)         CO mg/Nm³ (g/hp-h)       7.2       (0.02)         Emissions* (Potential Site Variation)       5134.7       (9.64)         NOx mg/Nm³ (g/hp-h)       5134.7       (9.64)         CO mg/Nm³ (g/hp-h)       116.1       (0.24)         HC mg/Nm³ (g/hp-h)       31.2       (0.07)	Exhaust gas flow rate – m³/min (cfm)	596.1	(21048.2)		
Heat rejection to jacket water – kW (Btu/min)         1431         (81384)           Heat rejection to exhaust (total) – kW (Btu/min)         2516         (143057)           Heat rejection to aftercooler – kW (Btu/min)         312         (17736)           Heat rejection to aftercooler – kW (Btu/min)         312         (10089)           Heat rejection to atmosphere from engine – kW (Btu/min)         177         (10089)           Heat rejection from alternator – kW (Btu/min)         158         (8974)           Emissions* (Nominal)         158         (803)           CO mg/Nm³ (g/hp-h)         4278.9         (8.03)           CO mg/Nm³ (g/hp-h)         64.5         (0.13)           HC mg/Nm³ (g/hp-h)         23.5         (0.06)           PM mg/Nm³ (g/hp-h)         7.2         (0.02)           Emissions* (Potential Site Variation)         5134.7         (9.64)           NOx mg/Nm³ (g/hp-h)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         116.1         (0.24)           HC mg/Nm³ (g/hp-h)         31.2         (0.07)		6.7	(27.0)		
Heat rejection to exhaust (total) – kW (Btu/min)         2516         (143057)           Heat rejection to aftercooler – kW (Btu/min)         312         (17736)           Heat rejection to atmosphere from engine – kW (Btu/min)         177         (10089)           Heat rejection from alternator – kW (Btu/min)         158         (8974)           Emissions* (Nominal)         158         (803)           CO mg/Nm³ (g/hp-h)         4278.9         (8.03)           CO mg/Nm³ (g/hp-h)         64.5         (0.13)           HC mg/Nm³ (g/hp-h)         7.2         (0.02)           Emissions* (Potential Site Variation)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         116.1         (0.24)           HC mg/Nm³ (g/hp-h)         31.2         (0.07)	Heat Rejection				
Heat rejection to aftercooler – kW (Btu/min)         312         (17736)           Heat rejection to atmosphere from engine – kW (Btu/min)         177         (10089)           Heat rejection from alternator – kW (Btu/min)         158         (8974)           Emissions* (Nominal)         158         (8974)           NOx mg/Nm³ (g/hp-h)         4278.9         (8.03)           CO mg/Nm³ (g/hp-h)         64.5         (0.13)           HC mg/Nm³ (g/hp-h)         23.5         (0.06)           PM mg/Nm³ (g/hp-h)         7.2         (0.02)           Emissions* (Potential Site Variation)         5134.7         (9.64)           NOx mg/Nm³ (g/hp-h)         116.1         (0.24)           HC mg/Nm³ (g/hp-h)         31.2         (0.07)	Heat rejection to jacket water – kW (Btu/min)	1431	(81384)		
Heat rejection to atmosphere from engine – kW (Btu/min)         177         (10089)           Heat rejection from alternator – kW (Btu/min)         158         (8974)           Emissions* (Nominal)         158         (8974)           NOx mg/Nm³ (g/hp-h)         4278.9         (8.03)           CO mg/Nm³ (g/hp-h)         64.5         (0.13)           HC mg/Nm³ (g/hp-h)         23.5         (0.06)           PM mg/Nm³ (g/hp-h)         7.2         (0.02)           Emissions* (Potential Site Variation)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         116.1         (0.24)           HC mg/Nm³ (g/hp-h)         31.2         (0.07)	Heat rejection to exhaust (total) – kW (Btu/min)	2516	(143057)		
kW (Btu/min)       177       (10089)         Heat rejection from alternator – kW (Btu/min)       158       (8974)         Emissions* (Nominal)       158       (8974)         NOx mg/Nm³ (g/hp-h)       4278.9       (8.03)         CO mg/Nm³ (g/hp-h)       64.5       (0.13)         HC mg/Nm³ (g/hp-h)       23.5       (0.06)         PM mg/Nm³ (g/hp-h)       7.2       (0.02)         Emissions* (Potential Site Variation)       5134.7       (9.64)         CO mg/Nm³ (g/hp-h)       116.1       (0.24)         HC mg/Nm³ (g/hp-h)       31.2       (0.07)	Heat rejection to aftercooler – kW (Btu/min)	312	(17736)		
Emissions* (Nominal)           NOx mg/Nm³ (g/hp-h)         4278.9         (8.03)           CO mg/Nm³ (g/hp-h)         64.5         (0.13)           HC mg/Nm³ (g/hp-h)         23.5         (0.06)           PM mg/Nm³ (g/hp-h)         7.2         (0.02)           Emissions* (Potential Site Variation)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         116.1         (0.24)           HC mg/Nm³ (g/hp-h)         31.2         (0.07)	, , ,	177	(10089)		
NOx mg/Nm³ (g/hp-h)         4278.9         (8.03)           CO mg/Nm³ (g/hp-h)         64.5         (0.13)           HC mg/Nm³ (g/hp-h)         23.5         (0.06)           PM mg/Nm³ (g/hp-h)         7.2         (0.02)           Emissions* (Potential Site Variation)         5134.7         (9.64)           NOx mg/Nm³ (g/hp-h)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         116.1         (0.24)           HC mg/Nm³ (g/hp-h)         31.2         (0.07)	Heat rejection from alternator – kW (Btu/min)	158	(8974)		
CO mg/Nm³ (g/hp-h)         64.5         (0.13)           HC mg/Nm³ (g/hp-h)         23.5         (0.06)           PM mg/Nm³ (g/hp-h)         7.2         (0.02)           Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         116.1         (0.24)         HC mg/Nm³ (g/hp-h)         31.2         (0.07)	Emissions* (Nominal)				
HC mg/Nm³ (g/hp-h)       23.5       (0.06)         PM mg/Nm³ (g/hp-h)       7.2       (0.02)         Emissions* (Potential Site Variation)           NOx mg/Nm³ (g/hp-h)       5134.7       (9.64)         CO mg/Nm³ (g/hp-h)       116.1       (0.24)         HC mg/Nm³ (g/hp-h)       31.2       (0.07)	NOx mg/Nm <sup>3</sup> (g/hp-h)	4278.9	(8.03)		
PM mg/Nm³ (g/hp-h)         7.2         (0.02)           Emissions* (Potential Site Variation)         5134.7         (9.64)           NOx mg/Nm³ (g/hp-h)         116.1         (0.24)           HC mg/Nm³ (g/hp-h)         31.2         (0.07)	CO mg/Nm <sup>3</sup> (g/hp-h)	64.5	(0.13)		
Emissions* (Potential Site Variation)           NOx mg/Nm³ (g/hp-h)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         116.1         (0.24)           HC mg/Nm³ (g/hp-h)         31.2         (0.07)	HC mg/Nm <sup>3</sup> (g/hp-h)	23.5	(0.06)		
NOx mg/Nm³ (g/hp-h)         5134.7         (9.64)           CO mg/Nm³ (g/hp-h)         116.1         (0.24)           HC mg/Nm³ (g/hp-h)         31.2         (0.07)	PM mg/Nm <sup>3</sup> (g/hp-h)	7.2	(0.02)		
CO mg/Nm³ (g/hp-h)         116.1         (0.24)           HC mg/Nm³ (g/hp-h)         31.2         (0.07)	Emissions* (Potential Site Variation)				
HC mg/Nm <sup>3</sup> (g/hp-h) 31.2 (0.07)	NOx mg/Nm <sup>3</sup> (g/hp-h)	5134.7	(9.64)		
	CO mg/Nm <sup>3</sup> (g/hp-h)	116.1	(0.24)		
PM mg/Nm <sup>3</sup> (g/hp-h) 10.1 (0.02)	HC mg/Nm <sup>3</sup> (g/hp-h)	31.2	(0.07)		
	PM mg/Nm <sup>3</sup> (g/hp-h)	10.1	(0.02)		

\*mg/Nm<sup>3</sup> levels are corrected to 5%  $O_2$ . Contact your local Cat dealer for further information.



# Weights and Dimensions



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, 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.

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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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