Cat[®] C175-20 Diesel Generator Sets





Bore – mm (in)	175 (6.89)	
Stroke – mm (in)	220 (8.66)	
Displacement – L (in ³)	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

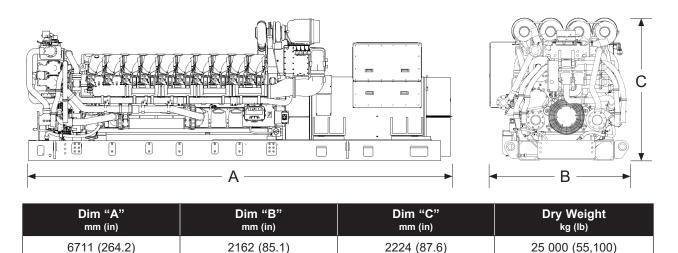
Low Fuel Consumption

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			
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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				
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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				
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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				
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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 ³ (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 ³ (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 ³ (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 ³ (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 ³ (g/hp-h) 31.2 (0.07)	NOx mg/Nm ³ (g/hp-h)	5134.7	(9.64)		
	CO mg/Nm ³ (g/hp-h)	116.1	(0.24)		
PM mg/Nm ³ (g/hp-h) 10.1 (0.02)	HC mg/Nm ³ (g/hp-h)	31.2	(0.07)		
	PM mg/Nm ³ (g/hp-h)	10.1	(0.02)		

*mg/Nm³ 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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