# Cat® C32

### **Diesel Generator Sets**





Bore – mm (in)	145 (5.7)		
Stroke – mm (in)	162 (6.4)		
Displacement – L (in³)	32.1 (1959)		
Compression Ratio	14.0:1		
Aspiration	TA		
Fuel System	EUI		
Governor Type	ADEM™ A4		

Image shown may not reflect actual configuration

Standby 50 Hz kVA (ekW)	Mission Critical 50 Hz kVA (ekW)	Prime 50 Hz kVA (ekW)	Emissions Performance
1400 (1120)	1400 (1120)	1275 (1020)	Ontimized for Law Evel Consumption
1500 (1200)	1500 (1200)	1375 (1100)	Optimized for Low Fuel Consumption

### Standard Features

### Cat® Diesel Engine

- · Designed and optimized for low fuel consumption
- Reliable and consistent performance proven in thousands of applications worldwide

### **Generator Set Package**

- Accepts 100% block load in one step and meets the NFPA 110 loading requirements
- Conforms to ISO 8528-5 G3 load acceptance requirements
- Reliability is verified through prototype testing, which includes torsional vibration, fuel consumption, oil consumption, transient performance, and endurance testing

### **Alternators**

- Superior motor starting capability minimizes the need for oversizing the generator
- Designed to match the 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

### **EMCP 4 Control Panels**

- · 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

### Warranty

- 24 months/1000-hour warranty for standby and mission critical ratings
- 12 months/unlimited hour warranty for prime and continuous 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 postsale 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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# **Optional Equipment**

Engine	Power Termination	Charging				
Air Cleaner	Туре	☐ Battery charger – 10A				
<ul><li>□ Single element</li><li>□ Dual element</li><li>□ Heavy duty</li></ul>	<ul><li>☐ Bus bar</li><li>☐ Circuit breaker</li><li>☐ 400A</li><li>☐ 800A</li></ul>	Vibration Isolators				
Muffler	□ 1200A □ 1600A	☐ Rubber ☐ Spring				
☐ Industrial grade (15 dB)	□ 2000A □ 2500A □ 3000A □ 3200A	☐ Seismic rated				
Starting	□ UL □ IEC	Cat Connect				
<ul> <li>□ Standard batteries</li> <li>□ Oversized batteries</li> <li>□ Standard electric starter</li> <li>□ Dual electric starter</li> <li>□ Jacket water heater</li> </ul>	□ 3-pole □ 4-pole □ Manually operated □ Electrically operated  Trip Unit □ LSI □ LSI-G	Connectivity  ☐ Ethernet ☐ Cellular ☐ Satellite				
Alternator	□ LSIG-P	<b>Extended Service Options</b>				
Output voltage	Factory Enclosure	Terms ☐ 2 year (prime)				
□ 400V □ 415V	<ul><li>☐ Weather protective</li><li>☐ Sound attenuated</li></ul>	□ 3 year □ 5 year				
Temperature Rise	Attachments	☐ 10 year				
(over 40°C ambient)  □ 150°C  □ 125°C/130°C  □ 105°C  □ 80°C	<ul><li>□ Cold weather bundle</li><li>□ DC lighting package</li><li>□ AC lighting package</li><li>□ Motorized louvers</li></ul>	Coverage □ Silver □ Gold □ Platinum				
Winding type	Fuel Tank	☐ Platinum Plus				
□ Random wound	☐ Sub-base	Ancillary Equipment				
☐ Form wound	☐ 1000 gal (3875 L) ☐ 2000 gal (7570 L)	☐ Automatic transfer switch				
Excitation  ☐ Self excited	□ 3600 gal (13627 L)	(ATS) ☐ Uninterruptible power supply				
☐ Internal excitation (IE)	Control System	(UPS) ☐ Paralleling switchgear				
☐ Permanent magnet (PM)	Controller	☐ Paralleling controls				
Attachments	□ EMCP 4.2B	Certifications				
<ul><li>☐ Anti-condensation heater</li><li>☐ Stator and bearing temperature</li></ul>	□ EMCP 4.3 □ EMCP 4.4	□ IBC seismic certification				
monitoring and protection	Attachments	☐ EU Declaration of Conformity				
	□ Local annunciator module □ Remote annunciator module □ Expansion I/O module □ Remote monitoring software	☐ Eurasian Conformity (EAC)				

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

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# **Package Performance**

Performance	Sta	ndby	Missior	Critical	Pr	ime
Frequency	50	Hz	50	Hz	50	Hz
Genset power rating with fan	1200	) ekW	1200	ekW	1100	) ekW
Genset power rating with fan @ 0.8 power factor	1500 kVA		1500 kVA		1375 kVA	
Fueling strategy	Low	Fuel	Low Fuel		Low Fuel	
Performance number	EM23	320-03	EM2528-01		EM2534-01	
Fuel Consumption						
100% load with fan – L/hr (gal/hr)	314.7	(83.1)	314.7	(83.1)	286.9	(75.8)
75% load with fan – L/hr (gal/hr)	232.8	(61.5)	232.8	(61.5)	213.6	(56.4)
50% load with fan – L/hr (gal/hr)	158.5	(41.9)	158.5	(41.9)	147.0	(38.8)
25% load with fan – L/hr (gal/hr)	92.3	(24.4)	92.3	(24.4)	86.6	(22.9)
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)	1355	(47851)	1355	(47851)	1355	(47851)
Engine coolant capacity – L (gal)	55	(14.5)	55	(14.5)	55	(14.5)
Radiator coolant capacity – L (gal)	55	(14.5)	55	(14.5)	55	(14.5)
Total coolant capacity – L (gal)	110	(29.0)	110	(29.0)	110	(29.0)
Inlet Air						
Combustion air inlet flow rate – m³/min (cfm)	100.6	(3551.3)	100.6	(3551.3)	94.3	(3328.6)
Exhaust System						
Exhaust stack gas temperature – °C (°F)	429.6	(805.2)	429.6	(805.2)	424.0	(795.1)
Exhaust gas flow rate – m³/min (cfm)	247.0	(8720.6)	247.0	(8720.6)	228.0	(8051.7)
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)	385	(21906)	385	(21906)	376	(21384)
Heat rejection to exhaust (total) – kW (Btu/min)	1067	(60682)	1067	(60682)	956	(54389)
Heat rejection to aftercooler – kW (Btu/min)	386	(21957)	386	(21957)	331	(18827)
Heat rejection to atmosphere from engine – kW (Btu/min)	211	(11975)	211	(11975)	192	(10917)
Heat rejection from alternator – kW (Btu/min)	57.9	(3293)	57.9	(3293)	51.8	(2946)
Emissions* (Nominal)						
NOx mg/Nm³ (g/hp-h)	2620.2	(5.76)	2620.2	(5.76)	2714.1	(5.91)
CO mg/Nm³ (g/hp-h)	122.4	(0.26)	122.4	(0.26)	193.0	(0.41)
HC mg/Nm³ (g/hp-h)	5.1	(0.01)	5.1	(0.01)	6.0	(0.01)
PM mg/Nm³ (g/hp-h)	23.5	(0.06)	23.5	(0.06)	37.0	(0.06)
Emissions* (Potential Site Variation)						
NOx mg/Nm³ (g/hp-h)	3170.5	(6.97)	3170.5	(6.97)	3284.0	(7.15)
CO mg/Nm³ (g/hp-h)	228.9	(0.49)	228.9	(0.49)	360.8	(0.76)
HC mg/Nm³ (g/hp-h)	9.7	(0.02)	9.7	(0.02)	11.3	(0.03)
PM mg/Nm³ (g/hp-h)	45.9	(0.11)	45.9	(0.11)	72.1	(0.17)

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

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# **Package Performance**

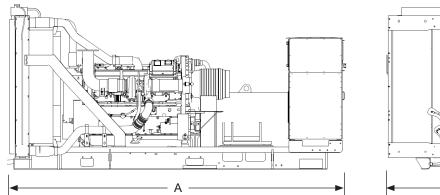
Fequency   Fequency   Fermion   F	Performance	Sta	ndby	Missior	n Critical	Pr	ime	
Genset power rating with fan @ 0.8 power factor   1400 km   140	Frequency	50	Hz	50	Hz	50	Hz	
Puelling strategy	Genset power rating with fan	1120	) ekW	1120	) ekW	1020	) ekW	
Performance number   EM231-03   EM2529-01   EM2535-02	Genset power rating with fan @ 0.8 power factor	1400	1400 kVA		1400 kVA		1275 kVA	
Fuel Consumption   100% load with fan — L/hr (gal/hr)   292.1   (77.2)   292.1   (77.2)   264.9   (70.0)   75% load with fan — L/hr (gal/hr)   217.4   (57.4)   217.4   (57.4)   198.5   (52.4)   25% load with fan — L/hr (gal/hr)   149.4   (39.5)   149.4   (39.5)   138.1   (36.5)   25% load with fan — L/hr (gal/hr)   87.9   (23.2)   87.9   (23.2)   87.9   (23.2)   82.0   (21.7)   (20.48)   (23.2)   87.9   (23.2)   (21.7)   (20.8)   (23.2)   (21.7)   (20.8)   (23.2)   (21.7)   (20.8)   (23.2)   (21.7)   (20.8)   (23.2)   (21.7)   (20.8)   (23.2)   (21.7)   (20.8)   (23.2)   (21.7)   (20.8)   (23.2)   (21.7)   (20.8)   (23.2)   (21.7)   (20.8)   (23.2	Fueling strategy	Low	Fuel	Low Fuel		Low Fuel		
100% load with fan - L/hr (gal/hr)   292.1 (77.2)   292.1 (77.2)   264.9 (70.0)   75% load with fan - L/hr (gal/hr)   217.4 (57.4)   217.4 (57.4)   198.5 (52.4)   50% load with fan - L/hr (gal/hr)   149.4 (39.5)   149.4 (39.5)   138.1 (36.5)   22% load with fan - L/hr (gal/hr)   149.4 (39.5)   149.4 (39.5)   138.1 (36.5)   32.2   37.9 (23.2)   37.9 (23.2)   38.0 (21.7)   32.2   37.9 (23.2)   38.0 (21.7)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)   38.0 (23.2)   38.0 (21.7)	Performance number	EM23	321-03	EM2529-01		EM2535-02		
75% load with fan – L/hr (gal/hr) 217.4 (57.4) 217.4 (57.4) 198.5 (52.4) 50% load with fan – L/hr (gal/hr) 149.4 (39.5) 149.4 (39.5) 138.1 (36.5) 25% load with fan – L/hr (gal/hr) 87.9 (23.2) 87.9 (23.2) 82.0 (21.7) 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) Radiator air flow restriction (system) – kPa (in. water) 1355 (47851) 1	Fuel Consumption							
50% load with fan – L/hr (gal/hr)         149.4         (39.5)         149.4         (39.5)         138.1         (36.5)           25% load with fan – L/hr (gal/hr)         87.9         (23.2)         87.9         (23.2)         82.0         (21.7)           Cooling System           Radiator air flow more restriction (system) – kPa (in. water)         0.12         (0.48)         0.14         0.18         2.0         1.0         2.0         1.0         2.0         1.0         2.0         1.0         2.0         1.0         2.0         1.0         2.0         1.0         2.0         1.0         2.0         1.0         2.0         1.0 <td>100% load with fan – L/hr (gal/hr)</td> <td>292.1</td> <td>(77.2)</td> <td>292.1</td> <td>(77.2)</td> <td>264.9</td> <td>(70.0)</td>	100% load with fan – L/hr (gal/hr)	292.1	(77.2)	292.1	(77.2)	264.9	(70.0)	
25% load with fan - L/hr (gal/hr)   87.9 (23.2)   87.9 (23.2)   82.0 (21.7)	75% load with fan – L/hr (gal/hr)	217.4	(57.4)	217.4	(57.4)	198.5	(52.4)	
Cooling System         Radiator air flow restriction (system) – kPa (in. water)         0.12         (0.48)         40.12         (0.48)         0.14         0.15         (47.55)         0.14         0.15         (14.5)         55         (14.5)         55         (14.5)         55         (14.5)         55         (14.5)         55         (14.5)         55         (14.5)         55         (14.5) <th< td=""><td>50% load with fan – L/hr (gal/hr)</td><td>149.4</td><td>(39.5)</td><td>149.4</td><td>(39.5)</td><td>138.1</td><td>(36.5)</td></th<>	50% load with fan – L/hr (gal/hr)	149.4	(39.5)	149.4	(39.5)	138.1	(36.5)	
Radiator air flow restriction (system) – kPa (in. water)  Radiator air flow – m³/min (cfm)  1355 (47851)  130 (29.0)  110 (29.	25% load with fan – L/hr (gal/hr)	87.9	(23.2)	87.9	(23.2)	82.0	(21.7)	
Radiator air flow — m³/min (cfm)	Cooling System							
Engine coolant capacity — L (gal)	Radiator air flow restriction (system) – kPa (in. water)	0.12	(0.48)	0.12	(0.48)	0.12	(0.48)	
Radiator coolant capacity — L (gal)	Radiator air flow – m³/min (cfm)	1355	(47851)	1355	(47851)	1355	(47851)	
Total coolant capacity — L (gal)	Engine coolant capacity – L (gal)	55	(14.5)	55	(14.5)	55	(14.5)	
Inlet Air   Combustion air inlet flow rate - m³/min (cfm)   95.5   (3372.4)   95.5   (3372.4)   88.6   (3129.9)	Radiator coolant capacity – L (gal)	55	(14.5)	55	(14.5)	55	(14.5)	
Combustion air inlet flow rate — m³/min (cfm)         95.5         (3372.4)         95.5         (3372.4)         88.6         (3129.9)           Exhaust System           Exhaust stack gas temperature — °C (°F)         424.9         (796.8)         424.9         (796.8)         420.4         (788.6)           Exhaust gas flow rate — m³/min (cfm)         231.7         (8179.8)         231.7         (8179.8)         212.1         (7488.9)           Exhaust system backpressure (maximum allowable) — kPa (in. water)         6.7         (27.0)         6.7         (27.0)         6.7         (27.0)           Heat rejection         10 scket water — kW (Btu/min)         378         (21495)         378         (21495)         366         (20840)           Heat rejection to backet water — kW (Btu/min)         977         (55537)         977         (55537)         873         (49648)           Heat rejection to affercooler — kW (Btu/min)         341         (19408)         341         (19408)         288         (16375)           Heat rejection to tamosphere from engine — kW (Btu/min)         195         (11114)         195         (11114)         177         (10080)           Heat rejection from alternator — kW (Btu/min)         52.8         (3003)         52.8         (3003)         45.8	Total coolant capacity – L (gal)	110	(29.0)	110	(29.0)	110	(29.0)	
Exhaust stack gas temperature – °C (°F)	Inlet Air							
Exhaust stack gas temperature – °C (°F) 424.9 (796.8) 424.9 (796.8) 420.4 (788.6)  Exhaust gas flow rate – m³/min (cfm) 231.7 (8179.8) 231.7 (8179.8) 212.1 (7488.9)  Exhaust system backpressure (maximum allowable) – kPa (in. water)  Heat Rejection  Heat rejection to jacket water – kW (Btu/min) 378 (21495) 378 (21495) 366 (20840)  Heat rejection to exhaust (total) – kW (Btu/min) 977 (55537) 977 (55537) 873 (49648)  Heat rejection to affercooler – kW (Btu/min) 341 (19408) 341 (19408) 288 (16375)  Heat rejection to atmosphere from engine – kW (Btu/min) 195 (11114) 195 (11114) 177 (10080)  Heat rejection from alternator – kW (Btu/min) 52.8 (3003) 52.8 (3003) 45.8 (2605)  Emissions* (Nominal)  NOx mg/Nm³ (g/hp-h) 2692.3 (5.88) 2692.3 (5.88) 263.3 (0.54)  HC mg/Nm³ (g/hp-h) 5.8 (0.01) 5.8 (0.01) 6.7 (0.02)  PM mg/Nm³ (g/hp-h) 34.6 (0.08) 34.6 (0.08) 47.0 (0.11)  Emissions* (Potential Site Variation)  NOx mg/Nm³ (g/hp-h) 3257.6 (7.11) 3257.6 (7.11) 3424.4 (7.36)  CO mg/Nm³ (g/hp-h) 333.4 (0.71) 333.4 (0.71) 492.4 (1.01)  HC mg/Nm³ (g/hp-h) 11.0 (0.03) 11.0 (0.03) 12.7 (0.03)	Combustion air inlet flow rate – m³/min (cfm)	95.5	(3372.4)	95.5	(3372.4)	88.6	(3129.9)	
Exhaust gas flow rate — m³/min (cfm)  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 affercooler — kW (Btu/min)  Heat rejection from alternator — kW (Btu/min)  Emissions* (Nominal)  NOx mg/Nm³ (g/hp-h)  2692.3 (5.88) 2692.3 (5.88) 2830.1 (6.08)  CO mg/Nm³ (g/hp-h)  5.8 (0.01) 5.8 (0.01) 6.7 (0.02)  PM mg/Nm³ (g/hp-h)  Emissions* (Potential Site Variation)  NOx mg/Nm³ (g/hp-h)  3257.6 (7.11) 3257.6 (7.11) 3424.4 (7.36)  CO mg/Nm³ (g/hp-h)  11.0 (0.03) 11.0 (0.03) 12.7 (0.03)	Exhaust System							
Exhaust system backpressure (maximum allowable) – kPa (in. water)  Heat Rejection  Heat rejection to jacket water – kW (Btu/min) 378 (21495) 378 (21495) 366 (20840)  Heat rejection to exhaust (total) – kW (Btu/min) 977 (55537) 977 (55537) 873 (49648)  Heat rejection to aftercooler – kW (Btu/min) 341 (19408) 341 (19408) 288 (16375)  Heat rejection to atmosphere from engine – kW (Btu/min) 195 (11114) 195 (11114) 177 (10080)  Heat rejection from alternator – kW (Btu/min) 52.8 (3003) 52.8 (3003) 45.8 (2605)  Emissions* (Nominal)  NOx mg/Nm³ (g/hp-h) 2692.3 (5.88) 2692.3 (5.88) 2830.1 (6.08)  CO mg/Nm³ (g/hp-h) 178.3 (0.38) 178.3 (0.38) 263.3 (0.54)  HC mg/Nm³ (g/hp-h) 5.8 (0.01) 5.8 (0.01) 6.7 (0.02)  PM mg/Nm³ (g/hp-h) 34.6 (0.08) 34.6 (0.08) 47.0 (0.11)  Emissions* (Potential Site Variation)  NOx mg/Nm³ (g/hp-h) 3257.6 (7.11) 3257.6 (7.11) 3424.4 (7.36)  CO mg/Nm³ (g/hp-h) 11.0 (0.03) 11.0 (0.03) 12.7 (0.03)	Exhaust stack gas temperature – °C (°F)	424.9	(796.8)	424.9	(796.8)	420.4	(788.6)	
Allowable  - kPa (in. water)   6.7 (27.0)	Exhaust gas flow rate – m³/min (cfm)	231.7	(8179.8)	231.7	(8179.8)	212.1	(7488.9)	
Heat rejection to jacket water – kW (Btu/min)         378         (21495)         378         (21495)         366         (20840)           Heat rejection to exhaust (total) – kW (Btu/min)         977         (55537)         977         (55537)         873         (49648)           Heat rejection to aftercooler – kW (Btu/min)         341         (19408)         341         (19408)         288         (16375)           Heat rejection to atmosphere from engine – kW (Btu/min)         195         (11114)         195         (11114)         177         (10080)           Heat rejection from alternator – kW (Btu/min)         52.8         (3003)         52.8         (3003)         45.8         (2605)           Emissions* (Nominal)         NOx mg/Nm³ (g/hp-h)         2692.3         (5.88)         2692.3         (5.88)         2830.1         (6.08)           CO mg/Nm³ (g/hp-h)         178.3         (0.38)         178.3         (0.38)         263.3         (0.54)           HC mg/Nm³ (g/hp-h)         34.6         (0.01)         5.8         (0.01)         6.7         (0.02)           PM mg/Nm³ (g/hp-h)         34.6         (0.08)         34.6         (0.08)         47.0         (0.11)           Emissions* (Potential Site Variation)         3257.6         (7.11)	, ,	6.7	(27.0)	6.7	(27.0)	6.7	(27.0)	
Heat rejection to exhaust (total) – kW (Btu/min)         977 (55537)         977 (55537)         873 (49648)           Heat rejection to aftercooler – kW (Btu/min)         341 (19408)         341 (19408)         288 (16375)           Heat rejection to atmosphere from engine – kW (Btu/min)         195 (11114)         195 (11114)         177 (10080)           Heat rejection from alternator – kW (Btu/min)         52.8 (3003)         52.8 (3003)         45.8 (2605)           Emissions* (Nominal)         NOx mg/Nm³ (g/hp-h)         2692.3 (5.88)         2692.3 (5.88)         2830.1 (6.08)           CO mg/Nm³ (g/hp-h)         178.3 (0.38)         178.3 (0.38)         263.3 (0.54)           HC mg/Nm³ (g/hp-h)         5.8 (0.01)         5.8 (0.01)         6.7 (0.02)           PM mg/Nm³ (g/hp-h)         34.6 (0.08)         34.6 (0.08)         47.0 (0.11)           Emissions* (Potential Site Variation)         3257.6 (7.11)         3257.6 (7.11)         3424.4 (7.36)           CO mg/Nm³ (g/hp-h)         333.4 (0.71)         333.4 (0.71)         492.4 (1.01)           HC mg/Nm³ (g/hp-h)         11.0 (0.03)         11.0 (0.03)         12.7 (0.03)	Heat Rejection							
Heat rejection to aftercooler – kW (Btu/min)       341 (19408)       341 (19408)       288 (16375)         Heat rejection to atmosphere from engine – kW (Btu/min)       195 (11114)       195 (11114)       177 (10080)         Heat rejection from alternator – kW (Btu/min)       52.8 (3003)       52.8 (3003)       45.8 (2605)         Emissions* (Nominal)         NOx mg/Nm³ (g/hp-h)       2692.3 (5.88)       2692.3 (5.88)       2830.1 (6.08)         CO mg/Nm³ (g/hp-h)       178.3 (0.38)       178.3 (0.38)       263.3 (0.54)         HC mg/Nm³ (g/hp-h)       5.8 (0.01)       5.8 (0.01)       6.7 (0.02)         PM mg/Nm³ (g/hp-h)       34.6 (0.08)       34.6 (0.08)       47.0 (0.11)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       3257.6 (7.11)       3257.6 (7.11)       3424.4 (7.36)         CO mg/Nm³ (g/hp-h)       333.4 (0.71)       333.4 (0.71)       492.4 (1.01)         HC mg/Nm³ (g/hp-h)       11.0 (0.03)       11.0 (0.03)       12.7 (0.03)	Heat rejection to jacket water – kW (Btu/min)	378	(21495)	378	(21495)	366	(20840)	
Heat rejection to atmosphere from engine – kW (Btu/min)       195       (11114)       195       (11114)       177       (10080)         Heat rejection from alternator – kW (Btu/min)       52.8       (3003)       52.8       (3003)       45.8       (2605)         Emissions* (Nominal)       Emissions* (Php-h)       2692.3       (5.88)       2692.3       (5.88)       2830.1       (6.08)         CO mg/Nm³ (g/hp-h)       178.3       (0.38)       178.3       (0.38)       263.3       (0.54)         HC mg/Nm³ (g/hp-h)       5.8       (0.01)       5.8       (0.01)       6.7       (0.02)         PM mg/Nm³ (g/hp-h)       34.6       (0.08)       34.6       (0.08)       47.0       (0.11)         Emissions* (Potential Site Variation)       3257.6       (7.11)       3257.6       (7.11)       3424.4       (7.36)         CO mg/Nm³ (g/hp-h)       333.4       (0.71)       333.4       (0.71)       492.4       (1.01)         HC mg/Nm³ (g/hp-h)       11.0       (0.03)       11.0       (0.03)       12.7       (0.03)	Heat rejection to exhaust (total) – kW (Btu/min)	977	(55537)	977	(55537)	873	(49648)	
Heat rejection from alternator – kW (Btu/min)       52.8       (3003)       52.8       (3003)       45.8       (2605)         Emissions* (Nominal)         NOx mg/Nm³ (g/hp-h)       2692.3       (5.88)       2692.3       (5.88)       2830.1       (6.08)         CO mg/Nm³ (g/hp-h)       178.3       (0.38)       178.3       (0.38)       263.3       (0.54)         HC mg/Nm³ (g/hp-h)       5.8       (0.01)       5.8       (0.01)       6.7       (0.02)         PM mg/Nm³ (g/hp-h)       34.6       (0.08)       34.6       (0.08)       47.0       (0.11)         Emissions* (Potential Site Variation)       3257.6       (7.11)       3257.6       (7.11)       3424.4       (7.36)         CO mg/Nm³ (g/hp-h)       333.4       (0.71)       333.4       (0.71)       492.4       (1.01)         HC mg/Nm³ (g/hp-h)       11.0       (0.03)       11.0       (0.03)       12.7       (0.03)	Heat rejection to aftercooler – kW (Btu/min)	341	(19408)	341	(19408)	288	(16375)	
Emissions* (Nominal)         NOx mg/Nm³ (g/hp-h)       2692.3       (5.88)       2692.3       (5.88)       2830.1       (6.08)         CO mg/Nm³ (g/hp-h)       178.3       (0.38)       178.3       (0.38)       263.3       (0.54)         HC mg/Nm³ (g/hp-h)       5.8       (0.01)       5.8       (0.01)       6.7       (0.02)         PM mg/Nm³ (g/hp-h)       34.6       (0.08)       34.6       (0.08)       47.0       (0.11)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       3257.6       (7.11)       3257.6       (7.11)       3424.4       (7.36)         CO mg/Nm³ (g/hp-h)       333.4       (0.71)       333.4       (0.71)       492.4       (1.01)         HC mg/Nm³ (g/hp-h)       11.0       (0.03)       11.0       (0.03)       12.7       (0.03)	Heat rejection to atmosphere from engine – kW (Btu/min)	195	(11114)	195	(11114)	177	(10080)	
NOx mg/Nm³ (g/hp-h)       2692.3       (5.88)       2692.3       (5.88)       2830.1       (6.08)         CO mg/Nm³ (g/hp-h)       178.3       (0.38)       178.3       (0.38)       263.3       (0.54)         HC mg/Nm³ (g/hp-h)       5.8       (0.01)       5.8       (0.01)       6.7       (0.02)         PM mg/Nm³ (g/hp-h)       34.6       (0.08)       34.6       (0.08)       47.0       (0.11)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       3257.6       (7.11)       3257.6       (7.11)       3424.4       (7.36)         CO mg/Nm³ (g/hp-h)       333.4       (0.71)       333.4       (0.71)       492.4       (1.01)         HC mg/Nm³ (g/hp-h)       11.0       (0.03)       11.0       (0.03)       12.7       (0.03)	Heat rejection from alternator – kW (Btu/min)	52.8	(3003)	52.8	(3003)	45.8	(2605)	
CO mg/Nm³ (g/hp-h)       178.3       (0.38)       178.3       (0.38)       263.3       (0.54)         HC mg/Nm³ (g/hp-h)       5.8       (0.01)       5.8       (0.01)       6.7       (0.02)         PM mg/Nm³ (g/hp-h)       34.6       (0.08)       34.6       (0.08)       47.0       (0.11)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       3257.6       (7.11)       3257.6       (7.11)       3424.4       (7.36)         CO mg/Nm³ (g/hp-h)       333.4       (0.71)       333.4       (0.71)       492.4       (1.01)         HC mg/Nm³ (g/hp-h)       11.0       (0.03)       11.0       (0.03)       12.7       (0.03)	Emissions* (Nominal)							
HC mg/Nm³ (g/hp-h) 5.8 (0.01) 5.8 (0.01) 6.7 (0.02)  PM mg/Nm³ (g/hp-h) 34.6 (0.08) 34.6 (0.08) 47.0 (0.11)  Emissions* (Potential Site Variation)  NOx mg/Nm³ (g/hp-h) 3257.6 (7.11) 3257.6 (7.11) 3424.4 (7.36)  CO mg/Nm³ (g/hp-h) 333.4 (0.71) 333.4 (0.71) 492.4 (1.01)  HC mg/Nm³ (g/hp-h) 11.0 (0.03) 11.0 (0.03) 12.7 (0.03)	NOx mg/Nm³ (g/hp-h)	2692.3	(5.88)	2692.3	(5.88)	2830.1	(6.08)	
PM mg/Nm³ (g/hp-h)       34.6       (0.08)       34.6       (0.08)       47.0       (0.11)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       3257.6       (7.11)       3257.6       (7.11)       3424.4       (7.36)         CO mg/Nm³ (g/hp-h)       333.4       (0.71)       333.4       (0.71)       492.4       (1.01)         HC mg/Nm³ (g/hp-h)       11.0       (0.03)       11.0       (0.03)       12.7       (0.03)	CO mg/Nm³ (g/hp-h)	178.3	(0.38)	178.3	(0.38)	263.3	(0.54)	
Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       3257.6       (7.11)       3257.6       (7.11)       3424.4       (7.36)         CO mg/Nm³ (g/hp-h)       333.4       (0.71)       333.4       (0.71)       492.4       (1.01)         HC mg/Nm³ (g/hp-h)       11.0       (0.03)       11.0       (0.03)       12.7       (0.03)	HC mg/Nm³ (g/hp-h)	5.8	(0.01)	5.8	(0.01)	6.7	(0.02)	
Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       3257.6       (7.11)       3257.6       (7.11)       3424.4       (7.36)         CO mg/Nm³ (g/hp-h)       333.4       (0.71)       333.4       (0.71)       492.4       (1.01)         HC mg/Nm³ (g/hp-h)       11.0       (0.03)       11.0       (0.03)       12.7       (0.03)	PM mg/Nm³ (g/hp-h)	34.6	(0.08)	34.6	(0.08)	47.0	(0.11)	
NOx mg/Nm³ (g/hp-h)       3257.6       (7.11)       3257.6       (7.11)       3424.4       (7.36)         CO mg/Nm³ (g/hp-h)       333.4       (0.71)       333.4       (0.71)       492.4       (1.01)         HC mg/Nm³ (g/hp-h)       11.0       (0.03)       11.0       (0.03)       12.7       (0.03)								
CO mg/Nm³ (g/hp-h)       333.4 (0.71)       333.4 (0.71)       492.4 (1.01)         HC mg/Nm³ (g/hp-h)       11.0 (0.03)       11.0 (0.03)       12.7 (0.03)		3257.6	(7.11)	3257.6	(7.11)	3424.4	(7.36)	
HC mg/Nm³ (g/hp-h) 11.0 (0.03) 11.0 (0.03) 12.7 (0.03)						492.4		
		+	-		-			
	PM mg/Nm³ (g/hp-h)	67.4	(0.16)	67.4	(0.16)		(0.22)	

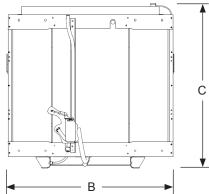
<sup>\*</sup> $mg/Nm^3$  levels are corrected to 5%  $O_2$ . Contact your local Cat dealer for further information

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### **Weights and Dimensions**





Dim "A"	Dim "B"	Dim "C"	Dry Weight
mm (in)	<sub>mm (in)</sub>	<sub>mm (in)</sub>	kg (lb)
4485 (176.6)	2228 (87.7)	2194 (86.4)	8099 (17855)

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

### **Ratings Definitions**

#### Standby

Output available with varying load for the duration of the interruption of the normal source power. Average power output is 70% of the standby power rating. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

#### **Mission Critical**

Output available with varying load for the duration of the interruption of the normal source power. Average power output is 85% of the mission critical power rating. Typical peak demand up to 100% of rated power for up to 5% of the operating time. Typical operation is 200 hours per year, with maximum expected usage of 500 hours per year.

### **Prime**

Output available with varying load for an unlimited time. Average power output is 70% of the prime power rating. Typical peak demand is 100% of prime 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**

AS1359, CSA C22.2 No100-04, UL142, UL489, UL869, UL2200, NFPA37, NFPA70, NFPA99, NFPA110, IBC, IEC60034-1, ISO3046, ISO8528, NEMA MG1-22, NEMA MG1-33, 2014/35/EU, 2006/42/EC, 2014/30/EU.

**Note:** Codes may not be available in all model configurations. Please consult your local Cat dealer for availability.

### **Data Center Applications**

Tier III/Tier IV compliant per Uptime Institute requirements. ANSI/TIA-942 compliant for Rated-1 through Rated-4 data centers.

### **Fuel Rates**

Fuel rates are 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 29°C (85°F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal.)

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