

# Cat® 3516C

## Diesel Generator Sets

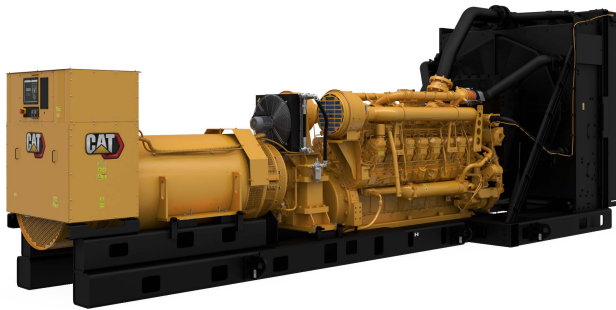


Image shown may not reflect actual configuration

Bore – mm (in)	170 (6.69)
Stroke – mm (in)	215 (8.46)
Displacement – L (in <sup>3</sup> )	78.1 (4765)
Compression Ratio	14.7:1
Aspiration	ATAAC
Fuel System	EUI
Governor Type	ADEM™ A3

Standby / Mission Critical – 50 Hz kVA (ekW)					Emissions Performance
3125 (2500)	3000 (2400)	2750 (2200)	2500 (2000)	2250 (1800)	Tier 2 U.S. EPA Stationary Emergency
		2750 (2200)	2500 (2000)	2250 (1800)	Low NOx (< 2000 mg NOx)

## Features

### Cat® Diesel Engine

- Tier 2 (U.S. EPA Stationary Emergency) emissions standards or Low NOx (< 2000 mg NOx)
- Reliable performance proven in thousands of applications worldwide

### Generator Set Package

- Accepts 100% block load in one step and 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

### 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 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

## Standard and Optional Equipment

### Engine

#### Air Cleaner

- Single element
- Dual element

#### Muffler

- Industrial grade (15 dB)

#### Starting

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

### Alternator

#### Output voltage

- 380V  6600V
- 400V  6900V
- 415V  10000V
- 3300V  10500V
- 6300V  11000V

#### Temperature Rise (over 40°C ambient)

- 150°C
- 125°C/130°C
- 105°C
- 80°C

#### Winding type

- Random wound
- Form wound

#### Excitation

- Internal excitation (IE)
- Permanent magnet (PM)

#### Attachments

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

### Power Termination

#### Type

- Bus bar
- Circuit breaker
- 1600A  2000A
- 2500A  3000A
- 3200A  4000A
- 5000A
- UL  IEC
- 3-pole  4-pole
- Manually operated
- Electrically operated

#### Trip Unit

- LSI  LSI-G
- LSI-G-P

### Control System

#### Controller

- EMCP 4.2B
- EMCP 4.3
- EMCP 4.4

#### Attachments

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

### Charging

- Battery charger – 10A
- Battery charger – 20A
- Battery charger – 35A

### Vibration Isolators

- Rubber
- Spring
- Seismic 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 Conformity
- EU & GB Declaration of Incorporation
- 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.

## Package Performance

<b>Performance</b>	<b>Standby</b>		<b>Mission Critical</b>		<b>Standby</b>		<b>Mission Critical</b>	
Engine Speed	1808 rpm		1808 rpm		1808 rpm		1808 rpm	
Frequency	50 Hz		50 Hz		50 Hz		50 Hz	
Gen set power rating with fan	2500 ekW		2500 ekW		2400 ekW		2400 ekW	
Gen set power rating with fan @ 0.8 power factor	3125 kVA		3125 kVA		3000 kVA		3000 kVA	
Emissions	Tier 2 (EPA ESE)		Tier 2 (EPA ESE)		Tier 2 (EPA ESE)		Tier 2 (EPA ESE)	
Performance number	EM2194-04		EM2202-01		EM2125-02		EM2201-01	
<b>Fuel Consumption</b>								
100% load with fan – L/hr (gal/hr)	639.1	(168.8)	639.1	(168.8)	619.5	(163.6)	619.5	(163.6)
75% load with fan – L/hr (gal/hr)	497.8	(131.5)	497.8	(131.5)	484.1	(127.9)	484.1	(127.9)
50% load with fan – L/hr (gal/hr)	363.8	(96.1)	363.8	(96.1)	353.8	(93.5)	353.8	(93.5)
25% load with fan – L/hr (gal/hr)	216.0	(57.1)	216.0	(57.1)	209.7	(55.4)	209.7	(55.4)
<b>Cooling System</b>								
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 – m <sup>3</sup> /min (cfm)	2672	(94360)	2672	(94360)	2672	(94360)	2672	(94360)
Engine coolant capacity – L (gal)	233.2	(61.6)	233.2	(61.6)	233.2	(61.6)	233.2	(61.6)
Radiator coolant capacity – L (gal)	201.5	(53.2)	201.5	(53.2)	201.5	(53.2)	201.5	(53.2)
Total coolant capacity – L (gal)	434.7	(114.8)	434.7	(114.8)	434.7	(114.8)	434.7	(114.8)
<b>Inlet Air</b>								
Combustion air inlet flow rate – m <sup>3</sup> /min (cfm)	204.8	(7230.3)	204.8	(7230.3)	201.5	(7114.8)	201.5	(7114.8)
<b>Exhaust System</b>								
Exhaust stack gas temperature – °C (°F)	491.8	(917.2)	491.8	(917.2)	484.9	(904.8)	484.9	(904.8)
Exhaust gas flow rate – m <sup>3</sup> /min (cfm)	556.9	(19663.4)	556.9	(19663.4)	542.0	(19137.8)	542.0	(19137.8)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(27.0)	6.7	(27.0)	6.7	(27.0)	6.7	(27.0)
<b>Heat Rejection</b>								
Heat rejection to jacket water – kW (Btu/min)	829	(47131)	829	(47131)	813	(46258)	813	(46258)
Heat rejection to exhaust (total) – kW (Btu/min)	2515	(143045)	2515	(143045)	2431	(138231)	2431	(138231)
Heat rejection to aftercooler – kW (Btu/min)	791	(44998)	791	(44998)	761	(43277)	761	(43277)
Heat rejection to atmosphere from engine – kW (Btu/min)	161	(9180)	161	(9180)	158	(8973)	158	(8973)
Heat rejection from alternator – kW (Btu/min)	121	(6881)	121	(6881)	107	(6085)	107	(6085)
<b>Emissions* (Nominal) - Full Load</b>								
NOx mg/Nm <sup>3</sup> (g/hp-h)	2354.5	(5.33)	2354.5	(5.33)	2318.0	(5.22)	2318.0	(5.22)
CO mg/Nm <sup>3</sup> (g/hp-h)	198.8	(0.43)	198.8	(0.43)	178.8	(0.39)	178.8	(0.39)
HC mg/Nm <sup>3</sup> (g/hp-h)	42.0	(0.10)	42.0	(0.10)	42.4	(0.11)	42.4	(0.11)
PM mg/Nm <sup>3</sup> (g/hp-h)	14.3	(0.04)	14.3	(0.04)	13.0	(0.03)	13.0	(0.03)
<b>Emissions* (Potential Site Variation) - Full Load</b>								
NOx mg/Nm <sup>3</sup> (g/hp-h)	2825.4	(6.40)	2825.4	(6.40)	2781.6	(6.27)	2781.6	(6.27)
CO mg/Nm <sup>3</sup> (g/hp-h)	357.8	(0.77)	357.8	(0.77)	321.8	(0.70)	321.8	(0.70)
HC mg/Nm <sup>3</sup> (g/hp-h)	55.9	(0.14)	55.9	(0.14)	56.3	(0.14)	56.3	(0.14)
PM mg/Nm <sup>3</sup> (g/hp-h)	20.1	(0.05)	20.1	(0.05)	18.2	(0.05)	18.2	(0.05)

\*mg/Nm<sup>3</sup> levels are corrected to 5% O<sub>2</sub>. Contact your local Cat dealer for further information.

## Package Performance

Performance	Standby	Mission Critical	Standby	Mission Critical
Engine Speed	1808 rpm	1808 rpm	1808 rpm	1808 rpm
Frequency	50 Hz	50 Hz	50 Hz	50 Hz
Gen set power rating with fan	2200 ekW	2200 ekW	2200 ekW	2200 ekW
Gen set power rating with fan @ 0.8 power factor	2750 kVA	2750 kVA	2750 kVA	2750 kVA
Emissions	< 2000 mg NOx	< 2000 mg NOx	Tier 2 (EPA ESE)	Tier 2 (EPA ESE)
Performance number	EM2128-03	EM2393-05	EM2124-01	EM2198-01
<b>Fuel Consumption</b>				
100% load with fan – L/hr (gal/hr)	598.2 (158.0)	598.2 (158.0)	571.4 (150.9)	571.4 (150.9)
75% load with fan – L/hr (gal/hr)	445.5 (117.7)	445.5 (117.7)	449.3 (118.7)	449.3 (118.7)
50% load with fan – L/hr (gal/hr)	322.1 (85.1)	322.1 (85.1)	328.7 (86.8)	328.7 (86.8)
25% load with fan – L/hr (gal/hr)	193.4 (51.1)	193.4 (51.1)	197.2 (52.1)	197.2 (52.1)
<b>Cooling System</b>				
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 – m <sup>3</sup> /min (cfm)	2672 (94360)	2672 (94360)	2672 (94360)	2672 (94360)
Engine coolant capacity – L (gal)	233.2 (61.6)	233.2 (61.6)	233.2 (61.6)	233.2 (61.6)
Radiator coolant capacity – L (gal)	201.5 (53.2)	201.5 (53.2)	201.5 (53.2)	201.5 (53.2)
Total coolant capacity – L (gal)	434.7 (114.8)	434.7 (114.8)	434.7 (114.8)	434.7 (114.8)
<b>Inlet Air</b>				
Combustion air inlet flow rate – m <sup>3</sup> /min (cfm)	201.7 (7121.0)	201.7 (7121.0)	192.6 (6801.6)	192.6 (6801.6)
<b>Exhaust System</b>				
Exhaust stack gas temperature – °C (°F)	498.0 (928.4)	498.0 (928.4)	470.6 (879.2)	470.6 (879.2)
Exhaust gas flow rate – m <sup>3</sup> /min (cfm)	487.1 (17198.9)	487.1 (17198.9)	505.9 (17864.9)	505.9 (17864.9)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7 (27.0)	6.7 (27.0)	6.7 (27.0)	6.7 (27.0)
<b>Heat Rejection</b>				
Heat rejection to jacket water – kW (Btu/min)	750 (42688)	750 (42688)	774 (44033)	774 (44033)
Heat rejection to exhaust (total) – kW (Btu/min)	2501 (142239)	2501 (142239)	2232 (126923)	2232 (126923)
Heat rejection to aftercooler – kW (Btu/min)	721 (40977)	721 (40977)	685 (38982)	685 (38982)
Heat rejection to atmosphere from engine – kW (Btu/min)	161 (9166)	161 (9166)	150 (8518)	150 (8518)
Heat rejection from alternator – kW (Btu/min)	107 (6085)	107 (6085)	107 (6085)	107 (6085)
<b>Emissions* (Nominal) - Full Load</b>				
NOx mg/Nm <sup>3</sup> (g/hp-h)	1656.6 (3.72)	1656.6 (3.72)	2198.9 (4.93)	2198.9 (4.93)
CO mg/Nm <sup>3</sup> (g/hp-h)	309.5 (0.71)	309.5 (0.71)	139.4 (0.30)	139.4 (0.30)
HC mg/Nm <sup>3</sup> (g/hp-h)	34.9 (0.09)	34.9 (0.09)	44.6 (0.11)	44.6 (0.11)
PM mg/Nm <sup>3</sup> (g/hp-h)	30.4 (0.08)	30.4 (0.08)	10.8 (0.03)	10.8 (0.03)
<b>Emissions* (Potential Site Variation) - Full Load</b>				
NOx mg/Nm <sup>3</sup> (g/hp-h)	1954.7 (4.39)	1954.7 (4.39)	2638.6 (5.92)	2638.6 (5.92)
CO mg/Nm <sup>3</sup> (g/hp-h)	577.1 (1.27)	577.1 (1.27)	250.9 (0.54)	250.9 (0.54)
HC mg/Nm <sup>3</sup> (g/hp-h)	46.4 (0.12)	46.4 (0.12)	59.4 (0.15)	59.4 (0.15)
PM mg/Nm <sup>3</sup> (g/hp-h)	42.6 (0.12)	42.6 (0.12)	15.1 (0.04)	15.1 (0.04)

\*mg/Nm<sup>3</sup> levels are corrected to 5% O<sub>2</sub>. Contact your local Cat dealer for further information.

## Package Performance

Performance	Standby	Mission Critical	Standby	Mission Critical
Engine Speed	1808 rpm	1808 rpm	1808 rpm	1808 rpm
Frequency	50 Hz	50 Hz	50 Hz	50 Hz
Gen set power rating with fan	2000 ekW	2000 ekW	2000 ekW	2000 ekW
Gen set power rating with fan @ 0.8 power factor	2500 kVA	2500 kVA	2500 kVA	2500 kVA
Emissions	< 2000 mg NOx	< 2000 mg NOx	Tier 2 (EPA ESE)	Tier 2 (EPA ESE)
Performance number	EM2127-03	EM2391-04	EM2123-01	EM2196-01
<b>Fuel Consumption</b>				
100% load with fan – L/hr (gal/hr)	546.2 (144.3)	546.2 (144.3)	525.1 (138.7)	525.1 (138.7)
75% load with fan – L/hr (gal/hr)	415.5 (109.8)	415.5 (109.8)	414.4 (109.5)	414.4 (109.5)
50% load with fan – L/hr (gal/hr)	298.8 (78.9)	298.8 (78.9)	301.6 (79.7)	301.6 (79.7)
25% load with fan – L/hr (gal/hr)	175.7 (46.4)	175.7 (46.4)	180.4 (47.7)	180.4 (47.7)
<b>Cooling System</b>				
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 – m <sup>3</sup> /min (cfm)	2672 (94360)	2672 (94360)	2672 (94360)	2672 (94360)
Engine coolant capacity – L (gal)	233.2 (61.6)	233.2 (61.6)	233.2 (61.6)	233.2 (61.6)
Radiator coolant capacity – L (gal)	201.5 (53.2)	201.5 (53.2)	201.5 (53.2)	201.5 (53.2)
Total coolant capacity – L (gal)	434.7 (114.8)	434.7 (114.8)	434.7 (114.8)	434.7 (114.8)
<b>Inlet Air</b>				
Combustion air inlet flow rate – m <sup>3</sup> /min (cfm)	189.3 (6683.8)	189.3 (6683.8)	182.3 (6435.5)	182.3 (6435.5)
<b>Exhaust System</b>				
Exhaust stack gas temperature – °C (°F)	497.9 (928.2)	497.9 (928.2)	462.7 (864.8)	462.7 (864.8)
Exhaust gas flow rate – m <sup>3</sup> /min (cfm)	451.3 (15937.3)	451.3 (15937.3)	471.7 (16654.4)	471.7 (16654.4)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7 (27.0)	6.7 (27.0)	6.7 (27.0)	6.7 (27.0)
<b>Heat Rejection</b>				
Heat rejection to jacket water – kW (Btu/min)	693 (39436)	693 (39436)	733 (41670)	733 (41670)
Heat rejection to exhaust (total) – kW (Btu/min)	2311 (131449)	2311 (131449)	2068 (117612)	2068 (117612)
Heat rejection to aftercooler – kW (Btu/min)	624 (35475)	624 (35475)	607 (34523)	607 (34523)
Heat rejection to atmosphere from engine – kW (Btu/min)	155 (8801)	155 (8801)	144 (8185)	144 (8185)
Heat rejection from alternator – kW (Btu/min)	107 (6085)	107 (6085)	107 (6085)	107 (6085)
<b>Emissions* (Nominal) - Full Load</b>				
NOx mg/Nm <sup>3</sup> (g/hp-h)	1567.7 (3.56)	1567.7 (3.56)	2006.6 (4.57)	2006.6 (4.57)
CO mg/Nm <sup>3</sup> (g/hp-h)	245.3 (0.56)	245.3 (0.56)	123.2 (0.27)	123.2 (0.27)
HC mg/Nm <sup>3</sup> (g/hp-h)	37.7 (0.10)	37.7 (0.10)	50.2 (0.12)	50.2 (0.12)
PM mg/Nm <sup>3</sup> (g/hp-h)	25.0 (0.07)	25.0 (0.07)	11.1 (0.03)	11.1 (0.03)
<b>Emissions* (Potential Site Variation) - Full Load</b>				
NOx mg/Nm <sup>3</sup> (g/hp-h)	1881.3 (4.27)	1881.3 (4.27)	2408.0 (5.48)	2408.0 (5.48)
CO mg/Nm <sup>3</sup> (g/hp-h)	441.5 (1.01)	441.5 (1.01)	221.8 (0.49)	221.8 (0.49)
HC mg/Nm <sup>3</sup> (g/hp-h)	50.1 (0.13)	50.1 (0.13)	66.7 (0.17)	66.7 (0.17)
PM mg/Nm <sup>3</sup> (g/hp-h)	35.0 (0.10)	35.0 (0.10)	15.5 (0.04)	15.5 (0.04)

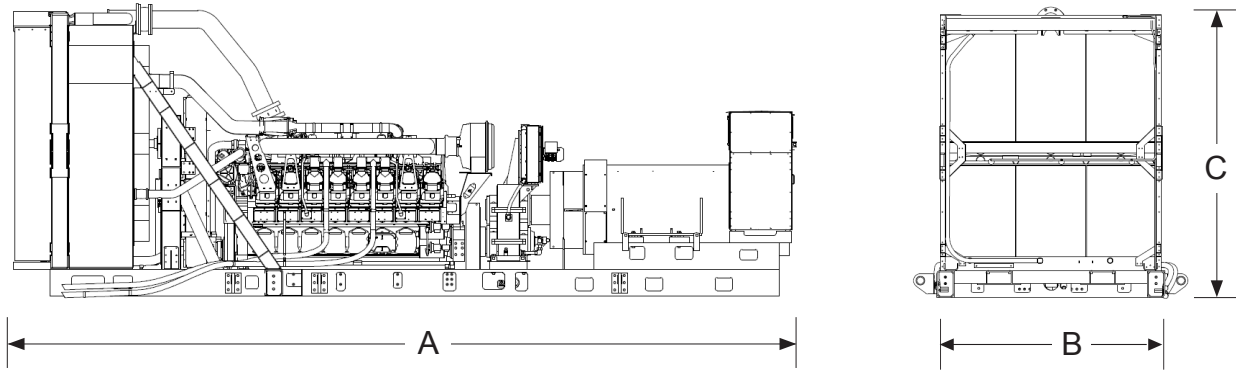
\*mg/Nm<sup>3</sup> levels are corrected to 5% O<sub>2</sub>. Contact your local Cat dealer for further information.

## Package Performance

<b>Performance</b>	<b>Standby</b>		<b>Mission Critical</b>		<b>Standby</b>		<b>Mission Critical</b>	
Engine Speed	1808 rpm		1808 rpm		1808 rpm		1808 rpm	
Frequency	50 Hz		50 Hz		50 Hz		50 Hz	
Gen set power rating with fan	1800 ekW		1800 ekW		1800 ekW		1800 ekW	
Gen set power rating with fan @ 0.8 power factor	2250 kVA		2250 kVA		2250 kVA		2250 kVA	
Emissions	< 2000 mg NOx		< 2000 mg NOx		Tier 2 (EPA ESE)		Tier 2 (EPA ESE)	
Performance number	EM2126-04		EM2389-04		EM2122-01		EM2195-00	
<b>Fuel Consumption</b>								
100% load with fan – L/hr (gal/hr)	512.0	(135.3)	512.0	(135.3)	478.8	(126.5)	478.8	(126.5)
75% load with fan – L/hr (gal/hr)	383.1	(101.2)	383.1	(101.2)	382.1	(100.9)	382.1	(100.9)
50% load with fan – L/hr (gal/hr)	272.9	(72.1)	272.9	(72.1)	277.2	(73.2)	277.2	(73.2)
25% load with fan – L/hr (gal/hr)	163.2	(43.1)	163.2	(43.1)	166.6	(44.0)	166.6	(44.0)
<b>Cooling System</b>								
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 – m <sup>3</sup> /min (cfm)	2672	(94360)	2672	(94360)	2672	(94360)	2672	(94360)
Engine coolant capacity – L (gal)	233.2	(61.6)	233.2	(61.6)	233.2	(61.6)	233.2	(61.6)
Radiator coolant capacity – L (gal)	201.5	(53.2)	201.5	(53.2)	201.5	(53.2)	201.5	(53.2)
Total coolant capacity – L (gal)	434.7	(114.8)	434.7	(114.8)	434.7	(114.8)	434.7	(114.8)
<b>Inlet Air</b>								
Combustion air inlet flow rate – m <sup>3</sup> /min (cfm)	183.2	(6469.0)	183.2	(6469.0)	170.8	(6031.8)	170.8	(6031.8)
<b>Exhaust System</b>								
Exhaust stack gas temperature – °C (°F)	491.9	(917.4)	491.9	(917.4)	457.8	(856.0)	457.8	(856.0)
Exhaust gas flow rate – m <sup>3</sup> /min (cfm)	431.2	(15226.4)	431.2	(15226.4)	439.1	(15505.2)	439.1	(15505.2)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(27.0)	6.7	(27.0)	6.7	(27.0)	6.7	(27.0)
<b>Heat Rejection</b>								
Heat rejection to jacket water – kW (Btu/min)	677	(38519)	677	(38519)	690	(39245)	690	(39245)
Heat rejection to exhaust (total) – kW (Btu/min)	2240	(127393)	2240	(127393)	1908	(108479)	1908	(108479)
Heat rejection to aftercooler – kW (Btu/min)	557	(31675)	557	(31675)	530	(30124)	530	(30124)
Heat rejection to atmosphere from engine – kW (Btu/min)	153	(8677)	153	(8677)	139	(7926)	139	(7926)
Heat rejection from alternator – kW (Btu/min)	107	(6085)	107	(6085)	107	(6085)	107	(6085)
<b>Emissions* (Nominal) - Full Load</b>								
NOx mg/Nm <sup>3</sup> (g/hp-h)	1333.7	(3.11)	1333.7	(3.11)	1778.8	(4.15)	1778.8	(4.15)
CO mg/Nm <sup>3</sup> (g/hp-h)	293.7	(0.69)	293.7	(0.69)	118.3	(0.26)	118.3	(0.26)
HC mg/Nm <sup>3</sup> (g/hp-h)	36.1	(0.10)	36.1	(0.10)	57.4	(0.14)	57.4	(0.14)
PM mg/Nm <sup>3</sup> (g/hp-h)	34.6	(0.10)	34.6	(0.10)	12.3	(0.03)	12.3	(0.03)
<b>Emissions* (Potential Site Variation) - Full Load</b>								
NOx mg/Nm <sup>3</sup> (g/hp-h)	1600.4	(3.74)	1600.4	(3.74)	2134.6	(4.98)	2134.6	(4.98)
CO mg/Nm <sup>3</sup> (g/hp-h)	528.6	(1.24)	528.6	(1.24)	212.9	(0.48)	212.9	(0.48)
HC mg/Nm <sup>3</sup> (g/hp-h)	48.0	(0.13)	48.0	(0.13)	76.3	(0.19)	76.3	(0.19)
PM mg/Nm <sup>3</sup> (g/hp-h)	44.2	(0.12)	44.2	(0.12)	17.3	(0.05)	17.3	(0.05)

\*mg/Nm<sup>3</sup> levels are corrected to 5% O<sub>2</sub>. Contact your local Cat dealer for further information.

## Weights and Dimensions



Standby Rating kVA	Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
3000 / 3125	8973 (353.3)	2640 (104.0)	3342 (131.6)	21 600 (47,620)
2250 / 2500 / 2750	8833 (347.7)	2640 (104.0)	3342 (131.6)	20 900 (46,077)

**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 rated kW. 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 rated kW. Typical peak demand up to 100% of rated kW for up to 5% of the operating time. Typical operation is 200 hours per year, with maximum expected usage of 500 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

- 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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