# Cat® 3516E

# **Diesel Generator Sets**





Bore – mm (in)	170 (6.69)			
Stroke – mm (in)	215 (8.47)			
Displacement – L (in³)	78.1 (4766)			
Compression Ratio	14.7:1			
Aspiration	TA			
Fuel System	EUI			
Governor Type	ADEM™ A5			

Image shown may not reflect actual configuration

Standby 60 Hz ekW (kVA)	Mission Critical 60 Hz ekW (kVA)	Prime 60 Hz ekW (kVA)	Emissions Performance
2750 (3437)	2750 (3437)	2500 (3125)	U.S. EPA Certified for Emergency Stationary Applications (Tier 2)

### Standard Features

### Cat® Diesel Engine

- Meets U.S. EPA Stationary Emergency Use Only (Tier 2) emission standards
- 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 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 post-sale support, including maintenance and repair agreements

### **Financing**

- Caterpillar offers an array of financial products to help you succeed through financial service excellence
- Options include loans, finance lease, operating lease, working capital, and revolving line of credit
- Contact your local Cat dealer for availability in your region

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# **Optional Equipment**

monitoring and protection

Engine	Power Termination	Vibration Isolators			
Air Cleaner  ☐ Single element	<i>Type</i> □ Bus bar	<ul><li>□ Spring</li><li>□ Seismic rated</li></ul>			
Muffler	☐ Circuit breaker ☐ 1600A ☐ 2000A	Cat Connect			
<ul> <li>□ Industrial grade (15 dB)</li> <li>□ Critical grade (25 dB)</li> <li>□ Hospital grade (35 dB)</li> <li>Starting</li> <li>□ Standard batteries</li> </ul>	□ 2500A □ 3000A □ 3200A □ 4000A □ 5000A □ UL □ 3-pole □ 4-pole	Connectivity  ☐ Ethernet ☐ Cellular ☐ Satellite			
☐ Oversized batteries	☐ Manually operated	<b>Extended Service Options</b>			
☐ Heavy duty electric starter(s) ☐ Air starter(s) ☐ Jacket water heater  Alternator	☐ Electrically operated  Trip Unit ☐ LSI ☐ LSI-G ☐ LSI-P ☐ LSIG-P	Terms □ 2 year (prime) □ 3 year □ 5 year			
		☐ 10 year			
Output voltage         □ 416V       □ 12470V         □ 480V       □ 13200V         □ 600V       □ 13800V	Control System  Controller  □ EMCP 4.2B  □ EMCP 4.3	Coverage ☐ Silver ☐ Gold ☐ Platinum			
□ 4160V	□ EMCP 4.4	☐ Platinum Plus			
Temperature Rise (over 40°C ambient)  □ 150°C  □ 125°C/130°C  □ 105°C  □ 80°C	Attachments  ☐ Local annunciator module ☐ Remote annunciator module ☐ Expansion I/O module ☐ Remote monitoring software	Ancillary Equipment  ☐ Automatic transfer switch (ATS) ☐ Uninterruptible power supply (UPS)			
Winding type	Charging	☐ Paralleling switchgear☐ Paralleling controls			
☐ Form wound  Excitation ☐ Permanent magnet (PM)	<ul> <li>□ Battery charger – 10A</li> <li>□ Battery charger – 20A</li> <li>□ Battery charger – 35A</li> </ul>	Certifications  □ UL 2200 Listed □ CSA □ IBC seismic certification □ OSHPD pre-approval			
Attachments  ☐ Anti-condensation heater ☐ Stator and bearing temperature					

**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**

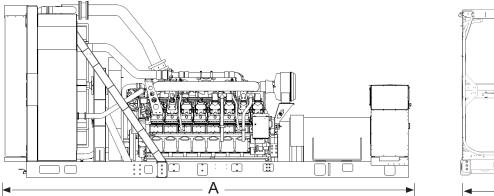
Frequency         60 Hz         250 ekW         2500 ekW         250 meV         200 meV         250 meV         200	Performance	Sta	ındby	Missio	n Critical	Р	rime
Gen set power rating with fan @         3438 kVA         3438 kVA         3125 kVA           0.8 power factor         EPA ESE (TIER 2)         EPA ES	Frequency	60	) Hz	60	) Hz	60	) Hz
	Gen set power rating with fan	275	0 ekW	275	0 ekW	250	0 ekW
Performance number		343	8 kVA	343	8 kVA	312	5 kVA
Puel Consumption   100% load with fan – L/hr (gal/hr)   735.6 (194.3)   735.6 (194.3)   662.5 (175.0)   75% load with fan – L/hr (gal/hr)   559.9 (147.9)   559.9 (147.9)   518.2 (136.9)   50% load with fan – L/hr (gal/hr)   406.7 (107.4)   406.7 (107.4)   377.2 (99.6)   225% load with fan – L/hr (gal/hr)   236.8 (62.6)   236.8 (62.6)   221.3 (58.5)   225% load with fan – L/hr (gal/hr)   236.8 (62.6)   236.8 (62.6)   221.3 (58.5)   225% load with fan – L/hr (gal/hr)   236.8 (62.6)   236.8 (62.6)   221.3 (58.5)   225.8 (62.6)   221.3 (62.6)   221.3 (62.6)   222.5 (62.6)	Emissions	EPA ES	E (TIER 2)	EPA ES	E (TIER 2)	EPA ES	E (TIER 2)
100% load with fan - L/hr (gal/hr)	Performance number	EM2	026-01	EM2	116-01	EM2	028-03
75% load with fan — L/hr (gal/hr)	Fuel Consumption						
50% load with fan – L/hr (gal/hr)         406.7 (107.4)         406.7 (107.4)         377.2 (99.6)           25% load with fan – L/hr (gal/hr)         236.8 (62.6)         236.8 (62.6)         231.3 (58.5)           Cooling System           Radiator air flow restriction (system) – k/Pa (in. water)         0.12 (0.48)         <	100% load with fan – L/hr (gal/hr)	735.6	(194.3)	735.6	(194.3)	662.5	(175.0)
25% load with fan - L/hr (gal/hr)   236.8 (62.6)   236.8 (62.6)   221.3 (58.5)	75% load with fan – L/hr (gal/hr)	559.9	(147.9)	559.9	(147.9)	518.2	(136.9)
Cooling System           Radiator air flow restriction (system) − k/Pa (in. water)         0.12 (0.48)         0.16 (0.68)         0.10 (0.68)         0.10 (0.68)         0.10 (0.68)         0.10 (0.66)         0.10 (0.66)         0.10 (0.67)         0.23.0 (0.61.6)         0.23.0 (0.61.6)         0.23.0 (0.61.6)         0.23.0 (0.61.6)         0.23.0 (0.61.6)         0.23.0 (0.61.6)         0.28.1 (0.69.5)         0.218.0 (0.69.5)         0.114.9)         0.114.9)         0.114.9)         0.114.9)         0.114.9)         0.114.9)         0.114.9)         0.114.90         0.114.90	50% load with fan – L/hr (gal/hr)	406.7	(107.4)	406.7	(107.4)	377.2	(99.6)
Radiator air flow restriction (system) - kPa (in. water)   0.12	25% load with fan – L/hr (gal/hr)	236.8	(62.6)	236.8	(62.6)	221.3	(58.5)
Real (in. water)   Real (in. w	Cooling System						
Engine coolant capacity — L (gal)	, ,	0.12	(0.48)	0.12	(0.48)	0.12	(0.48)
Radiator coolant capacity – L (gal)	Radiator air flow – m³/min (cfm)	3026	(106862)	3026	(106862)	3026	(106862)
Total coolant capacity – L (gal)	Engine coolant capacity – L (gal)	233.0	(61.6)	233.0	(61.6)	233.0	(61.6)
Name	Radiator coolant capacity – L (gal)	202.0	(53.3)	202.0	(53.3)	202.0	(53.3)
Exhaust System	Total coolant capacity – L (gal)	435.0	(114.9)	435.0	(114.9)	435.0	(114.9)
Exhaust stack gas temperature – °C (°F)	Inlet Air						
Exhaust stack gas temperature – °C (°F)	Combustion air inlet flow rate – m³/min (cfm)	235.4	(8311.0)	235.4	(8311.0)	218.0	(7698.5)
Exhaust gas flow rate — m³/min (cfm) 615.2 (21724.6) 554.5 (21724.6) 560.1 (19778.8)  Exhaust system backpressure (maximum allowable) — kPa (in. water) 6.7 (27.0) 6.7 (27.0) 6.7 (27.0)  Heat Rejection  Heat rejection to jacket water — kW (Btu/min) 898 (51083) 898 (51083) 830 (47219)  Heat rejection to exhaust (total) — kW (Btu/min) 874 (49686) 874 (49686) 743 (42274)  Heat rejection to aftercooler — kW (Btu/min) 874 (49686) 874 (49686) 743 (42274)  Heat rejection to atmosphere from engine — kW (Btu/min) 126 (7172) 126 (7172) 112 (6386)  Emissions* (Nominal)  NOx mg/Nm³ (g/hp-h) 2195.2 (5.12) 2195.2 (5.12) 2255.8 (5.16)  CO mg/Nm³ (g/hp-h) 283.4 (0.64) 283.4 (0.64) 205.2 (0.46)  HC mg/Nm³ (g/hp-h) 24.7 (0.07) 24.7 (0.07) 14.3 (0.04)  Emissions* (Potential Site Variation)  NOx mg/Nm³ (g/hp-h) 510.1 (1.16) 510.1 (1.16) 369.4 (0.83)  HC mg/Nm³ (g/hp-h) 52.9 (0.14) 52.9 (0.14) 59.8 (0.15)	Exhaust System						
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 aftercooler – kW (Btu/min)  Heat rejection to aftercooler – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection from alternator – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (Btu/min)  Heat rejection to atmosphere from engine – kW (49686)  Heat rejection to atmosphere from e	Exhaust stack gas temperature – °C (°F)	480.6	(897.0)	480.6	(897.0)	469.1	(876.4)
Heat Rejection   Heat rejection to jacket water - kW (Btu/min)   Reat rejection to exhaust (total) - kW (Btu/min)   Reat rejection to aftercooler - kW (Btu/min)   Reat rejection to aftercooler - kW (Btu/min)   Reat rejection to atmosphere from engine - kW (Btu/min)   Reat rejection from alternator   Reat Reat Reat Reat Reat Reat Reat Reat	Exhaust gas flow rate – m³/min (cfm)	615.2	(21724.6)	554.5	(21724.6)	560.1	(19778.8)
Heat rejection to jacket water – kW (Btu/min)         898         (51083)         898         (51083)         830         (47219)           Heat rejection to exhaust (total) – kW (Btu/min)         2867         (163046)         2867         (163046)         2560         (145561)           Heat rejection to aftercooler – kW (Btu/min)         874         (49686)         874         (49686)         743         (42274)           Heat rejection to atmosphere from engine – kW (Btu/min)         160         (9085)         160         (9085)         150         (8557)           Heat rejection from alternator – kW (Btu/min)         126         (7172)         126         (7172)         112         (6386)           Emissions* (Nominal)         Emissions* (Nominal)           NOx mg/Nm³ (g/hp-h)         2195.2         (5.12)         2195.2         (5.12)         2255.8         (5.16)           CO mg/Nm³ (g/hp-h)         283.4         (0.64)         283.4         (0.64)         205.2         (0.46)           HC mg/Nm³ (g/hp-h)         24.7         (0.07)         24.7         (0.07)         14.3         (0.04)           Emissions* (Potential Site Variation)		6.7	(27.0)	6.7	(27.0)	6.7	(27.0)
Heat rejection to exhaust (total) – kW (Btu/min) 2867 (163046) 2867 (163046) 2560 (145561)  Heat rejection to aftercooler – kW (Btu/min) 874 (49686) 874 (49686) 743 (42274)  Heat rejection to atmosphere from engine – kW (Btu/min) 160 (9085) 160 (9085) 150 (8557)  Heat rejection from alternator – kW (Btu/min) 126 (7172) 126 (7172) 112 (6386)  Emissions* (Nominal)  NOx mg/Nm³ (g/hp-h) 2195.2 (5.12) 2195.2 (5.12) 2255.8 (5.16)  CO mg/Nm³ (g/hp-h) 283.4 (0.64) 283.4 (0.64) 205.2 (0.46)  HC mg/Nm³ (g/hp-h) 39.8 (0.10) 39.8 (0.10) 45.0 (0.12)  PM mg/Nm³ (g/hp-h) 24.7 (0.07) 24.7 (0.07) 14.3 (0.04)  Emissions* (Potential Site Variation)  NOx mg/Nm³ (g/hp-h) 2634.2 (6.14) 2634.2 (6.14) 2706.9 (6.19)  CO mg/Nm³ (g/hp-h) 510.1 (1.16) 510.1 (1.16) 369.4 (0.83)  HC mg/Nm³ (g/hp-h) 52.9 (0.14) 52.9 (0.14) 59.8 (0.15)	Heat Rejection						
Heat rejection to aftercooler – kW (Btu/min)       874 (49686)       874 (49686)       743 (42274)         Heat rejection to atmosphere from engine – kW (Btu/min)       160 (9085)       160 (9085)       150 (8557)         Heat rejection from alternator – kW (Btu/min)       126 (7172)       126 (7172)       112 (6386)         Emissions* (Nominal)         NOx mg/Nm³ (g/hp-h)       2195.2 (5.12)       2195.2 (5.12)       2255.8 (5.16)         CO mg/Nm³ (g/hp-h)       283.4 (0.64)       283.4 (0.64)       205.2 (0.46)         HC mg/Nm³ (g/hp-h)       39.8 (0.10)       39.8 (0.10)       45.0 (0.12)         PM mg/Nm³ (g/hp-h)       24.7 (0.07)       24.7 (0.07)       14.3 (0.04)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       2634.2 (6.14)       2634.2 (6.14)       2706.9 (6.19)         CO mg/Nm³ (g/hp-h)       510.1 (1.16)       510.1 (1.16)       369.4 (0.83)         HC mg/Nm³ (g/hp-h)       52.9 (0.14)       52.9 (0.14)       59.8 (0.15)	Heat rejection to jacket water – kW (Btu/min)	898	(51083)	898	(51083)	830	(47219)
Heat rejection to atmosphere from engine - kW (Btu/min)   160 (9085)   160 (9085)   150 (8557)	Heat rejection to exhaust (total) – kW (Btu/min)	2867	(163046)	2867	(163046)	2560	(145561)
kW (Btu/min)       160       (9085)       160       (9085)       150       (8557)         Heat rejection from alternator – kW (Btu/min)       126       (7172)       126       (7172)       112       (6386)         Emissions* (Nominal)         NOx mg/Nm³ (g/hp-h)       2195.2       (5.12)       2195.2       (5.12)       2255.8       (5.16)         CO mg/Nm³ (g/hp-h)       283.4       (0.64)       283.4       (0.64)       205.2       (0.46)         HC mg/Nm³ (g/hp-h)       39.8       (0.10)       39.8       (0.10)       45.0       (0.12)         PM mg/Nm³ (g/hp-h)       24.7       (0.07)       24.7       (0.07)       14.3       (0.04)         Emissions* (Potential Site Variation)       2634.2       (6.14)       2634.2       (6.14)       2706.9       (6.19)         CO mg/Nm³ (g/hp-h)       510.1       (1.16)       510.1       (1.16)       369.4       (0.83)         HC mg/Nm³ (g/hp-h)       52.9       (0.14)       52.9       (0.14)       59.8       (0.15)	Heat rejection to aftercooler – kW (Btu/min)	874	(49686)	874	(49686)	743	(42274)
Emissions* (Nominal)         NOx mg/Nm³ (g/hp-h)       2195.2 (5.12)       2195.2 (5.12)       2255.8 (5.16)         CO mg/Nm³ (g/hp-h)       283.4 (0.64)       283.4 (0.64)       205.2 (0.46)         HC mg/Nm³ (g/hp-h)       39.8 (0.10)       39.8 (0.10)       45.0 (0.12)         PM mg/Nm³ (g/hp-h)       24.7 (0.07)       24.7 (0.07)       14.3 (0.04)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       2634.2 (6.14)       2634.2 (6.14)       2706.9 (6.19)         CO mg/Nm³ (g/hp-h)       510.1 (1.16)       510.1 (1.16)       369.4 (0.83)         HC mg/Nm³ (g/hp-h)       52.9 (0.14)       52.9 (0.14)       59.8 (0.15)		160	(9085)	160	(9085)	150	(8557)
NOx mg/Nm³ (g/hp-h)       2195.2       (5.12)       2195.2       (5.12)       2255.8       (5.16)         CO mg/Nm³ (g/hp-h)       283.4       (0.64)       283.4       (0.64)       205.2       (0.46)         HC mg/Nm³ (g/hp-h)       39.8       (0.10)       39.8       (0.10)       45.0       (0.12)         PM mg/Nm³ (g/hp-h)       24.7       (0.07)       24.7       (0.07)       14.3       (0.04)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       2634.2       (6.14)       2634.2       (6.14)       2706.9       (6.19)         CO mg/Nm³ (g/hp-h)       510.1       (1.16)       510.1       (1.16)       369.4       (0.83)         HC mg/Nm³ (g/hp-h)       52.9       (0.14)       52.9       (0.14)       59.8       (0.15)	Heat rejection from alternator – kW (Btu/min)	126	(7172)	126	(7172)	112	(6386)
CO mg/Nm³ (g/hp-h)       283.4 (0.64)       283.4 (0.64)       205.2 (0.46)         HC mg/Nm³ (g/hp-h)       39.8 (0.10)       39.8 (0.10)       45.0 (0.12)         PM mg/Nm³ (g/hp-h)       24.7 (0.07)       24.7 (0.07)       14.3 (0.04)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       2634.2 (6.14)       2634.2 (6.14)       2706.9 (6.19)         CO mg/Nm³ (g/hp-h)       510.1 (1.16)       510.1 (1.16)       369.4 (0.83)         HC mg/Nm³ (g/hp-h)       52.9 (0.14)       52.9 (0.14)       59.8 (0.15)	Emissions* (Nominal)						
HC mg/Nm³ (g/hp-h)       39.8 (0.10)       39.8 (0.10)       45.0 (0.12)         PM mg/Nm³ (g/hp-h)       24.7 (0.07)       24.7 (0.07)       14.3 (0.04)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       2634.2 (6.14)       2634.2 (6.14)       2706.9 (6.19)         CO mg/Nm³ (g/hp-h)       510.1 (1.16)       510.1 (1.16)       369.4 (0.83)         HC mg/Nm³ (g/hp-h)       52.9 (0.14)       52.9 (0.14)       59.8 (0.15)	NOx mg/Nm³ (g/hp-h)	2195.2	(5.12)	2195.2	(5.12)	2255.8	(5.16)
PM mg/Nm³ (g/hp-h)       24.7 (0.07)       24.7 (0.07)       14.3 (0.04)         Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       2634.2 (6.14)       2634.2 (6.14)       2706.9 (6.19)         CO mg/Nm³ (g/hp-h)       510.1 (1.16)       510.1 (1.16)       369.4 (0.83)         HC mg/Nm³ (g/hp-h)       52.9 (0.14)       52.9 (0.14)       59.8 (0.15)	CO mg/Nm³ (g/hp-h)	283.4	(0.64)	283.4	(0.64)	205.2	(0.46)
Emissions* (Potential Site Variation)         NOx mg/Nm³ (g/hp-h)       2634.2 (6.14)       2634.2 (6.14)       2706.9 (6.19)         CO mg/Nm³ (g/hp-h)       510.1 (1.16)       510.1 (1.16)       369.4 (0.83)         HC mg/Nm³ (g/hp-h)       52.9 (0.14)       52.9 (0.14)       59.8 (0.15)	HC mg/Nm³ (g/hp-h)	39.8	(0.10)	39.8	(0.10)	45.0	(0.12)
NOx mg/Nm³ (g/hp-h)       2634.2       (6.14)       2634.2       (6.14)       2706.9       (6.19)         CO mg/Nm³ (g/hp-h)       510.1       (1.16)       510.1       (1.16)       369.4       (0.83)         HC mg/Nm³ (g/hp-h)       52.9       (0.14)       52.9       (0.14)       59.8       (0.15)	PM mg/Nm³ (g/hp-h)	24.7	(0.07)	24.7	(0.07)	14.3	(0.04)
CO mg/Nm³ (g/hp-h)       510.1 (1.16)       510.1 (1.16)       369.4 (0.83)         HC mg/Nm³ (g/hp-h)       52.9 (0.14)       52.9 (0.14)       59.8 (0.15)	Emissions* (Potential Site Variation)						
HC mg/Nm³ (g/hp-h) 52.9 (0.14) 52.9 (0.14) 59.8 (0.15)	NOx mg/Nm³ (g/hp-h)	2634.2	(6.14)	2634.2	(6.14)	2706.9	(6.19)
	CO mg/Nm³ (g/hp-h)	510.1	(1.16)	510.1	(1.16)	369.4	(0.83)
PM mg/Nm³ (g/hp-h) 34.5 (0.09) 34.5 (0.09) 20.1 (0.05)	HC mg/Nm³ (g/hp-h)	52.9	(0.14)	52.9	(0.14)	59.8	(0.15)
	PM mg/Nm³ (g/hp-h)	34.5	(0.09)	34.5	(0.09)	20.1	(0.05)

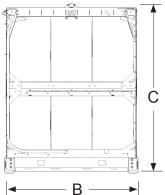
<sup>\*</sup>mg/Nm³ levels are corrected to 5% O<sub>2</sub>. Contact your local Cat dealer for further information.

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# **Weights and Dimensions**





Dim "A"	Dim "B"	Dim "C"	Dry Weight
mm (in)	mm (in)	mm (in)	kg (lb)
7703 (303.3)	2640 (104.0)	3342 (131.6)	

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**

AS 1359, CSA C22.2 No. 100-04, UL 142, UL 489, UL 869, UL 2200, NFPA 37, NFPA 70, NFPA 99, NFPA 110, IBC, IEC 60034-1, ISO 3046, ISO 8528, 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**

- ISO 8528-1 Data Center Power (DCP) compliant per DCP application of Cat diesel generator set prime power rating.
- All ratings Tier III/Tier IV compliant per Uptime Institute requirements.
- All ratings ANSI/TIA-942 compliant for Rated-1 through Rated-4 data centers.

### **Fuel Rates**

Fuel rates are based on fuel oil of 35° API [ $16^{\circ}$ C ( $60^{\circ}$ F)] gravity having an LHV of 42,780 kJ/kg (18,390 Btu/lb) when used at 29°C ( $85^{\circ}$ F) and weighing 838.9 g/liter (7.001 lbs/U.S. gal.)

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