Cat® 3512B

Diesel Generator Sets





Bore – mm (in)	170 (6.69)
Stroke – mm (in)	215 (8.46)
Displacement – L (in³)	58.56 (3573.55)
Compression Ratio	15.5:1
Aspiration	TA
Fuel System	EUI
Governor Type	ADEM™ A3

Image shown may not reflect actual configuration

Standby	Mission Critical	Prime	Emissions Performance
50 Hz kVA (ekW)	50 Hz kVA (ekW)	50 Hz kVA (ekW)	
1750 (1400)	1750 (1400)	1600 (1280)	Optimized for Low Fuel Consumption or Low Emissions

Standard Features

Cat® Diesel Engine

- Designed and optimized for low emissions or low fuel consumption
- 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 ☐ Dual element	Type ☐ Bus bar ☐ Circuit breaker ☐ 16004 ☐ 20004	□ Rubber□ Spring□ Seismic rated			
☐ Heavy duty	□ 1600A □ 2000A □ 2500A □ 3000A	Cat Connect			
Muffler ☐ Industrial grade (15 dB) ☐ Residential grade (20 dB) ☐ Critical grade (35 dB)	☐ 3200A ☐ UL ☐ IEC ☐ 3-pole ☐ 4-pole ☐ Manually operated ☐ Electrically operated	Connectivity ☐ Ethernet ☐ Cellular ☐ Satellite			
Starting ☐ Standard batteries	Trip Unit	Extended Service Options			
□ Oversized batteries□ Standard electric starter(s)□ Dual electric starter(s)	□ LSI □ LSI-G □ LSIG-P	Terms ☐ 2 year (prime)			
☐ Air starter(s) ☐ Jacket water heater	Control System	□ 3 year □ 5 year			
Jacket water fleater	Controller	☐ 10 year			
Alternator	□ EMCP 4.2B □ EMCP 4.3	Coverage			
Output voltage	☐ EMCP 4.4	☐ Silver ☐ Gold			
□ 380V □ 6600V □ 400V □ 6900V	Attachments	☐ Platinum☐ Platinum Plus			
□ 415V □ 10000V □ 3300V □ 10500V	□ Local annunciator module□ Remote annunciator module				
□ 6300V □ 11000V	□ Expansion I/O module□ Remote monitoring software	Ancillary Equipment			
Temperature Rise (over 40°C ambient)		☐ Automatic transfer switch (ATS)			
□ 150°C	Charging	Uninterruptible power supply			
□ 125°C/130°C □ 105°C □ 80°C	□ Battery charger – 10A□ Battery charger – 20A□ Battery charger – 35A	(UPS) ☐ Paralleling switchgear ☐ Paralleling controls			
Winding type		Certifications			
☐ Random wound ☐ Form wound		☐ IBC seismic certification☐ EU Declaration of Conformity			
Excitation ☐ Internal excitation (IE) ☐ Permanent magnet (PM)		□ EU Declaration of Incorporation □ Eurasian Conformity (EAC)			
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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Low Fuel Consumption (30°C SCAC)

Performance	Sta	ındby	Missio	n Critical	Pr	ime
Frequency	50 Hz		50 Hz		50 Hz	
Gen set power rating with fan	1400 ekW		1400 ekW		1280 ekW	
Gen set power rating with fan @ 0.8 power factor	1750	0 kVA	175	0 kVA	1600) kVA
Emissions	Low	/ Fuel	Lov	v Fuel	Low	Fuel
Performance number	DM8	230-02	EM0	581-01	DM82	233-01
Fuel Consumption						
100% load with fan – L/hr (gal/hr)	355.2	(93.8)	355.2	(93.8)	323.8	(85.5)
75% load with fan – L/hr (gal/hr)	266.9	(70.5)	266.9	(70.5)	245.6	(64.9)
50% load with fan – L/hr (gal/hr)	185.9	(49.1)	185.9	(49.1)	172.3	(45.5)
25% load with fan – L/hr (gal/hr)	107.5	(28.4)	107.5	(28.4)	101.0	(26.7)
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)	1543	(54490)	1543	(54490)	1543	(54490)
Engine coolant capacity – L (gal)	156.8	(41.4)	156.8	(41.4)	156.8	(41.4)
Radiator coolant capacity – L (gal)	149	(39)	149	(39)	149	(39)
Total coolant capacity – L (gal)	305.8	(80.4)	305.8	(80.4)	305.8	(80.4)
Inlet Air						
Combustion air inlet flow rate – m³/min (cfm)	120.0	(4237.2)	120.0	(4237.2)	112.6	(3975.9)
Exhaust System						
Exhaust stack gas temperature – °C (°F)	457.7	(855.9)	457.7	(855.9)	443.0	(829.4)
Exhaust gas flow rate – m³/min (cfm)	304.8	(10762.6)	304.8	(10762.6)	280.4	(9900.8)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(26.9)	6.7	(26.9)	6.7	(26.9)
Heat Rejection						
Heat rejection to jacket water – kW (Btu/min)	499	(28377)	499	(28377)	468	(26614)
Heat rejection to exhaust (total) – kW (Btu/min)	1331	(75691)	1331	(75691)	1205	(68524)
Heat rejection to aftercooler – kW (Btu/min)	335	(19051)	335	(19051)	291	(16548)
Heat rejection to atmosphere from engine – kW (Btu/min)	112	(6369)	112	(6369)	106	(6028)
Heat rejection from alternator – kW (Btu/min)	69	(3942)	69	(3942)	60	(3429)
Emissions* (Nominal)						
NOx mg/Nm³ (g/hp-h)	2382.8	(4.87)	2382.8	(4.87)	2452.1	(4.98)
CO mg/Nm³ (g/hp-h)	320.6	(0.65)	320.6	(0.65)	299.2	(0.61)
HC mg/Nm³ (g/hp-h)	42.0	(0.09)	42.0	(0.09)	44.4	(0.09)
PM mg/Nm³ (g/hp-h)	44.1	(0.09)	44.1	(0.09)	48.9	(0.10)
Emissions* (Potential Site Variation)						
NOx mg/Nm³ (g/hp-h)	2859.4	(5.84)	2859.4	(5.84)	2942.5	(5.98)
NOx mg/Nm³ (g/hp-h) CO mg/Nm³ (g/hp-h)	2859.4 577.1	(5.84)	2859.4 577.1	(5.84)	2942.5 538.5	(5.98) (1.09)

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

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Low Fuel Consumption (60°C SCAC)

Performance	Standby		Mission Critical		Prime		
Frequency	50	50 Hz		50 Hz		50 Hz	
Gen set power rating with fan	140	1400 ekW 1400 ek\		0 ekW	1280 ekW		
Gen set power rating with fan @ 0.8 power factor	175	0 kVA	175	0 kVA	1600	1600 kVA	
Emissions	Lov	v Fuel	Lov	v Fuel	Low	Fuel	
Performance number	DM8	231-01	EM0	585-01	DM82	234-01	
Fuel Consumption							
100% load with fan – L/hr (gal/hr)	358.1	(94.6)	358.1	(94.6)	326.2	(86.2)	
75% load with fan – L/hr (gal/hr)	268.9	(71.0)	268.9	(71.0)	247.5	(65.4)	
50% load with fan – L/hr (gal/hr)	187.8	(49.6)	187.8	(49.6)	174.2	(46.0)	
25% load with fan – L/hr (gal/hr)	108.8	(28.7)	108.8	(28.7)	102.3	(27.0)	
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)	1543	(54490)	1543	(54490)	1543	(54490)	
Engine coolant capacity – L (gal)	156.8	(41.4)	156.8	(41.4)	156.8	(41.4)	
Radiator coolant capacity – L (gal)	149	(39)	149	(39)	149	(39)	
Total coolant capacity – L (gal)	305.8	(80.4)	305.8	(80.4)	305.8	(80.4)	
Inlet Air							
Combustion air inlet flow rate - m³/min (cfm)	116.7	(4120.7)	116.7	(4120.7)	109.1	(3852.3)	
Exhaust System							
Exhaust stack gas temperature – °C (°F)	467.9	(874.2)	467.9	(874.2)	454.9	(850.8)	
Exhaust gas flow rate - m³/min (cfm)	300.9	(10624.8)	300.9	(10624.8)	276.0	(9745.4)	
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(26.9)	6.7	(26.9)	6.7	(26.9)	
Heat Rejection							
Heat rejection to jacket water - kW (Btu/min)	568	(32301)	568	(32301)	531	(30197)	
Heat rejection to exhaust (total) – kW (Btu/min)	1334	(75862)	1334	(75862)	1207	(68638)	
Heat rejection to aftercooler – kW (Btu/min)	285	(16207)	285	(16207)	241	(13704)	
Heat rejection to atmosphere from engine – kW (Btu/min)	121	(6881)	121	(6881)	114	(6483)	
Heat rejection from alternator – kW (Btu/min)	69	(3942)	69	(3942)	60	(3429)	
Emissions* (Nominal)							
NOx mg/Nm³ (g/hp-h)	2699.0	(5.56)	2699.0	(5.56)	2780.7	(5.7)	
CO mg/Nm³ (g/hp-h)	332.0	(0.68)	332.0	(0.68)	321.4	(0.7)	
HC mg/Nm³ (g/hp-h)	42.5	(0.09)	42.5	(0.09)	44.7	(0.1)	
PM mg/Nm³ (g/hp-h)	40.0	(80.0)	40.0	(0.08)	44.0	(0.1)	
Emissions* (Potential Site Variation)							
NOx mg/Nm³ (g/hp-h)	3238.8	(6.67)	3238.8	(6.67)	3243.8	(6.68)	
CO mg/Nm³ (g/hp-h)	597.6	(1.23)	597.6	(1.23)	597.5	(1.23)	
HC mg/Nm³ (g/hp-h)	56.5	(0.12)	56.5	(0.12)	56.7	(0.12)	
PM mg/Nm³ (g/hp-h)	56.0	(0.12)	56.0	(0.12)	56.3	(0.12)	

 $^{^*}$ mg/Nm³ levels are corrected to 5% O $_2$. Contact your local Cat dealer for further information.

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Low Fuel Consumption (90°C SCAC)

Performance	Standby		Mission Critical		Prime		
Frequency	50	50 Hz		50 Hz		50 Hz	
Gen set power rating with fan	140	1400 ekW		1400 ekW) ekW	
Gen set power rating with fan @ 0.8 power factor	175	0 kVA	175	0 kVA	1600	1600 kVA	
Emissions	Lov	v Fuel	Lov	v Fuel	Low	Fuel	
Performance number	DM8	232-01	EM0	586-01	DM82	235-01	
Fuel Consumption							
100% load with fan – L/hr (gal/hr)	362.7	(95.8)	362.7	(95.8)	326.2	(86.2)	
75% load with fan – L/hr (gal/hr)	270.4	(71.4)	270.4	(71.4)	247.5	(65.4)	
50% load with fan – L/hr (gal/hr)	188.8	(49.9)	188.8	(49.9)	174.2	(46.0)	
25% load with fan – L/hr (gal/hr)	109.0	(28.8)	109.0	(28.8)	102.3	(27.0)	
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)	1543	(54490)	1543	(54490)	1543	(54490)	
Engine coolant capacity – L (gal)	156.8	(41.4)	156.8	(41.4)	156.8	(41.4)	
Radiator coolant capacity – L (gal)	149	(39)	149	(39)	149	(39)	
Total coolant capacity – L (gal)	305.8	(80.4)	305.8	(80.4)	305.8	(80.4)	
Inlet Air							
Combustion air inlet flow rate - m³/min (cfm)	113.8	(4018.3)	113.8	(4018.3)	109.1	(3852.3)	
Exhaust System							
Exhaust stack gas temperature – °C (°F)	489.1	(912.4)	489.1	(912.4)	454.9	(850.8)	
Exhaust gas flow rate – m³/min (cfm)	302.5	(10681.3)	302.5	(10681.3)	276.0	(9745.4)	
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(26.9)	6.7	(26.9)	6.7	(26.9)	
Heat Rejection							
Heat rejection to jacket water - kW (Btu/min)	630	(35827)	630	(35827)	531	(30197)	
Heat rejection to exhaust (total) - kW (Btu/min)	1368	(77796)	1368	(77796)	1207	(68638)	
Heat rejection to aftercooler - kW (Btu/min)	227	(12909)	227	(12909)	241	(13704)	
Heat rejection to atmosphere from engine – kW (Btu/min)	132	(7507)	132	(7507)	114	(6483)	
Heat rejection from alternator – kW (Btu/min)	69	(3942)	69	(3942)	60	(3429)	
Emissions* (Nominal)							
NOx mg/Nm³ (g/hp-h)	2962.0	(6.17)	2962.0	(6.17)	3141.7	(6.48)	
CO mg/Nm³ (g/hp-h)	325.1	(0.68)	325.1	(0.68)	332.7	(0.69)	
HC mg/Nm³ (g/hp-h)	41.2	(0.09)	41.2	(0.09)	43.4	(0.09)	
PM mg/Nm³ (g/hp-h)	33.9	(0.07)	33.9	(0.07)	37.2	(80.0)	
Emissions* (Potential Site Variation)							
NOx mg/Nm³ (g/hp-h)	3554.4	(7.40)	3554.4	(7.40)	3770.0	(7.78)	
CO mg/Nm³ (g/hp-h)	585.2	(1.22)	585.2	(1.22)	598.8	(1.24)	
HC mg/Nm³ (g/hp-h)	54.8	(0.11)	54.8	(0.11)	57.7	(0.12)	
PM mg/Nm³ (g/hp-h)	47.5	(0.10)	47.5	0.10)	52.1	(0.11)	

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

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Low Emissions (30°C SCAC)

Performance	Sta	indby	Missio	n Critical	Pr	ime	
Frequency	50 Hz		50 Hz		50 Hz		
Gen set power rating with fan	1400 ekW		1400 ekW		1280 ekW		
Gen set power rating with fan @ 0.8 power factor	175	0 kVA	175	0 kVA	160	1600 kVA	
Emissions	Low E	missions	Low E	missions	Low E	missions	
Performance number	DM8	239-01	EM0	582-01	DM8	242-01	
Fuel Consumption							
100% load with fan – L/hr (gal/hr)	371.6	(98.2)	371.6	(98.2)	340.3	(89.9)	
75% load with fan – L/hr (gal/hr)	280.4	(74.1)	280.4	(74.1)	257.2	(68.0)	
50% load with fan – L/hr (gal/hr)	193.2	(51.0)	193.2	(51.0)	178.8	(47.2)	
25% load with fan – L/hr (gal/hr)	109.6	(28.9)	109.6	(28.9)	102.7	(27.1)	
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)	1543	(54490)	1543	(54490)	1543	(54490)	
Engine coolant capacity – L (gal)	156.8	(41.4)	156.8	(41.4)	156.8	(41.4)	
Radiator coolant capacity – L (gal)	149	(39)	149	(39)	149	(39)	
Total coolant capacity – L (gal)	305.8	(80.4)	305.8	(80.4)	305.8	(80.4)	
Inlet Air							
Combustion air inlet flow rate – m³/min (cfm)	128.1	(4523.3)	128.1	(4523.3)	123.6	(4364.3)	
Exhaust System							
Exhaust stack gas temperature – °C (°F)	444.0	(831.2)	444.0	(831.2)	421.0	(789.8)	
Exhaust gas flow rate – m³/min (cfm)	323.0	(11405.2)	323.0	(11405.2)	300.7	(10617.6)	
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(26.9)	6.7	(26.9)	6.7	(26.9)	
Heat Rejection							
Heat rejection to jacket water – kW (Btu/min)	514	(29230)	514	(29230)	484	(27524)	
Heat rejection to exhaust (total) – kW (Btu/min)	1383	(78649)	1383	(78649)	1259	(71595)	
Heat rejection to aftercooler – kW (Btu/min)	417	(23714)	417	(23714)	373	(21211)	
Heat rejection to atmosphere from engine – kW (Btu/min)	121	(6881)	121	(6881)	115	(6540)	
Heat rejection from alternator – kW (Btu/min)	69	(3942)	69	(3942)	60	(3429)	
Emissions* (Nominal)							
NOx mg/Nm³ (g/hp-h)	1709.3	(3.64)	1709.3	(3.64)	1593.4	(3.40)	
CO mg/Nm³ (g/hp-h)	317.9	(0.68)	317.9	(0.68)	268.8	(0.57)	
HC mg/Nm³ (g/hp-h)	72.5	(0.15)	72.5	(0.15)	73.8	(0.16)	
PM mg/Nm³ (g/hp-h)	31.0	(0.07)	31.0	(0.07)	26.5	(0.06)	
Emissions* (Potential Site Variation)							
NOx mg/Nm³ (g/hp-h)			0054.4	(4.07)	1010.1	(4.00)	
NOX Hig/Niti (g/iip-ii)	2051.1	(4.37)	2051.1	(4.37)	1912.1	(4.08)	
CO mg/Nm³ (g/hp-h)	2051.1 572.2	(4.37)	572.2	(4.37)	483.9	(1.03)	

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

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Low Emissions (60°C SCAC)

Performance	Sta	Standby		Mission Critical		Prime	
Frequency	5	50 Hz		50 Hz		50 Hz	
Gen set power rating with fan	140	1400 ekW 1400 ekW		0 ekW	1280 ekW		
Gen set power rating with fan @ 0.8 power factor	175	50 kVA	175	0 kVA	160	1600 kVA	
Emissions	Low E	missions	Low E	missions	Low E	missions	
Performance number	DM8	3240-01	EM0	583-01	DM8	243-01	
Fuel Consumption							
100% load with fan – L/hr (gal/hr)	375.4	(99.2)	375.4	(99.2)	340.3	(89.9)	
75% load with fan – L/hr (gal/hr)	279.2	(73.8)	279.2	(73.8)	256.6	(67.8)	
50% load with fan – L/hr (gal/hr)	193.8	(51.2)	193.8	(51.2)	179.6	(47.4)	
25% load with fan – L/hr (gal/hr)	111.0	(29.3)	111.0	(29.3)	104.2	(27.5)	
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)	1543	(54490)	1543	(54490)	1543	(54490)	
Engine coolant capacity – L (gal)	156.8	(41.4)	156.8	(41.4)	156.8	(41.4)	
Radiator coolant capacity – L (gal)	149	(39)	149	(39)	149	(39)	
Total coolant capacity – L (gal)	305.8	(80.4)	305.8	(80.4)	305.8	(80.4)	
Inlet Air							
Combustion air inlet flow rate – m³/min (cfm)	125.7	(4438.5)	125.7	(4438.5)	119.1	(4205.4)	
Exhaust System	_						
Exhaust stack gas temperature – °C (°F)	453.6	(848.5)	453.6	(848.5)	430.7	(807.3)	
Exhaust gas flow rate – m³/min (cfm)	321.6	(11355.8)	321.6	(11355.8)	294.7	(10405.7	
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(26.9)	6.7	(26.9)	6.7	(26.9)	
Heat Rejection							
Heat rejection to jacket water – kW (Btu/min)	589	(33495)	589	(33495)	550	(31277)	
Heat rejection to exhaust (total) – kW (Btu/min)	1413	(80355)	1413	(80355)	1268	(72107)	
Heat rejection to aftercooler – kW (Btu/min)	360	(20472)	360	(20472)	314	(17855)	
Heat rejection to atmosphere from engine – kW (Btu/min)	132	(7507)	132	(7507)	124	(7052)	
Heat rejection from alternator – kW (Btu/min)	69	(3942)	69	(3942)	60	(3429)	
Emissions* (Nominal)							
NOx mg/Nm³ (g/hp-h)	1949.9	(4.20)	1949.9	(4.20)	1941.8	(4.13)	
CO mg/Nm³ (g/hp-h)	391.3	(0.84)	391.3	(0.84)	298.6	(0.64)	
HC mg/Nm³ (g/hp-h)	77.6	(0.17)	77.6	(0.17)	74.5	(0.16)	
PM mg/Nm³ (g/hp-h)	33.1	(0.07)	33.1	(0.07)	20.8	(0.04)	
Emissions* (Potential Site Variation)							
NOx mg/Nm³ (g/hp-h)	2339.9	(5.04)	2339.9	(5.04)	2330.2	(4.96)	
CO mg/Nm³ (g/hp-h)	704.3	(1.52)	704.3	(1.52)	537.5	(1.14)	
HC mg/Nm³ (g/hp-h)	103.2	(0.22)	103.2	(0.22)	99.1	(0.21)	
PM mg/Nm³ (g/hp-h)	46.3	(0.10)	46.3	(0.10)	29.1	(0.06)	

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

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Low Emissions (90°C SCAC)

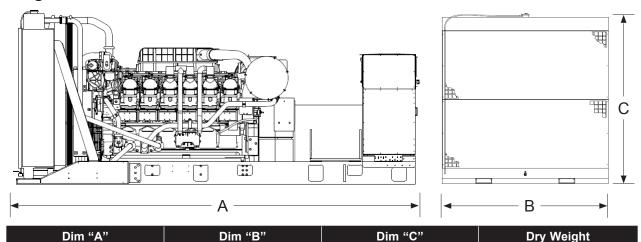
Performance	Sta	indby	Missio	n Critical	Pr	ime
Frequency	50) Hz	50 Hz		50 Hz	
Gen set power rating with fan	140	1400 ekW		1400 ekW) ekW
Gen set power rating with fan @ 0.8 power factor	175	0 kVA	175	0 kVA	1600) kVA
Emissions	Low E	missions	Low E	missions	Low E	missions
Performance number	DM8	241-01	EM0	584-01	DM8	244-01
Fuel Consumption						
100% load with fan – L/hr (gal/hr)	368.6	(97.4)	368.6	(97.4)	334.5	(88.4)
75% load with fan – L/hr (gal/hr)	275.0	(72.7)	275.0	(72.7)	252.7	(66.8)
50% load with fan – L/hr (gal/hr)	191.2	(50.5)	191.2	(50.5)	177.2	(46.8)
25% load with fan – L/hr (gal/hr)	110.0	(29.1)	110.0	(29.1)	103.3	(27.3)
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)	1543	(54490)	1543	(54490)	1543	(54490)
Engine coolant capacity – L (gal)	156.8	(41.4)	156.8	(41.4)	156.8	(41.4)
Radiator coolant capacity – L (gal)	149	(39)	149	(39)	149	(39)
Total coolant capacity – L (gal)	305.8	(80.4)	305.8	(80.4)	305.8	(80.4)
Inlet Air						
Combustion air inlet flow rate – m³/min (cfm)	119.1	(4205.5)	119.1	(4205.5)	111.0	(3919.4)
Exhaust System						
Exhaust stack gas temperature – °C (°F)	457.8	(856.0)	457.8	(856.0)	444.6	(832.3)
Exhaust gas flow rate – m³/min (cfm)	307.3	(10850.8)	307.3	(10850.8)	280.9	(9918.4)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(26.9)	6.7	(26.9)	6.7	(26.9)
Heat Rejection						
Heat rejection to jacket water – kW (Btu/min)	642	(36509)	642	(36509)	598	(34007)
Heat rejection to exhaust (total) – kW (Btu/min)	1373	(78080)	1373	(78080)	1232	(70060)
Heat rejection to aftercooler – kW (Btu/min)	282	(16037)	282	(16037)	233	(13249)
Heat rejection to atmosphere from engine – kW (Btu/min)	141	(8018)	141	(8018)	133	(7564)
Heat rejection from alternator – kW (Btu/min)	69	(3942)	69	(3942)	60	(3429)
Emissions* (Nominal)						
NOx mg/Nm³ (g/hp-h)	2604.8	(5.50)	2604.8	(5.50)	2661.2	(5.6)
CO mg/Nm³ (g/hp-h)	306.9	(0.65)	306.9	(0.65)	405.3	(8.0)
HC mg/Nm³ (g/hp-h)	66.1	(0.14)	66.1	(0.14)	63.8	(0.1)
PM mg/Nm³ (g/hp-h)	12.6	(0.03)	12.6	(0.03)	15.9	(0.0)
Emissions* (Potential Site Variation)						
NOx mg/Nm³ (g/hp-h)	3125.8	(6.60)	3125.8	(6.60)	3193.5	(6.68)
CO mg/Nm³ (g/hp-h)	552.4	(1.17)	552.4	(1.17)	729.6	(1.53)
HC mg/Nm³ (g/hp-h)	87.9	(0.19)	87.9	(0.19)	84.9	(0.18)
PM mg/Nm³ (g/hp-h)	17.6	(0.04)	17.6	(0.04)	22.3	(0.05)

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

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Weights and Dimensions



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

mm (in)

2286 (90.0)

Ratings Definitions

mm (in)

5472 (215.4)

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

mm (in)

2342 (92.2)

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.

kg (lb)

12 090 (26,640)

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.