Cat® 3512B
Diesel Generator Sets

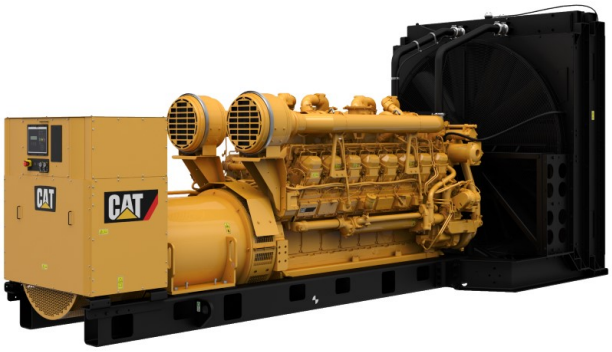


Image shown may not reflect actual configuration

Bore – mm (in)	170 (6.69)
Stroke – mm (in)	190 (7.48)
Displacement – L (in^3)	51.8 (3161.03)
Compression Ratio	14.0:1
Aspiration	TA
Fuel System	EUI
Governor Type	ADEM™ A3

Standby 50 Hz kVA (ekW)	Mission Critical 50 Hz kVA (ekW)	Prime 50 Hz kVA (ekW)	Emissions Performance
1500 (1200)	1500 (1200)	1360 (1088)	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

Optional Equipment

Engine

Air Cleaner

- ❑ Single element
- ❑ Dual element
- ❑ Heavy duty

Muffler

- ❑ Industrial grade (10 dB)
- ❑ Residential grade (20 dB)
- ❑ Critical grade (35 dB)

Starting

- ❑ Standard batteries
- ❑ Oversized batteries
- ❑ Standard electric starter(s)
- ❑ Dual 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
- ❑ UL ❑ IEC
- ❑ 3-pole ❑ 4-pole
- ❑ Manually operated
- ❑ Electrically operated

Trip Unit

- ❑ LSI ❑ LSI-G
- ❑ LSIG-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
- ❑ Satellite

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)
- ❑ Uninterruptible power supply (UPS)
- ❑ Paralleling switchgear
- ❑ Paralleling controls

Certifications

- ❑ IBC seismic certification
- ❑ EU Declaration of Conformity
- ❑ EU 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

Low Fuel Consumption (30°C SCAC)

Performance	Standby		Mission Critical		Prime	
Frequency	50 Hz		50 Hz		50 Hz	
Gen set power rating with fan	1200 ekW		1200 ekW		1088 ekW	
Gen set power rating with fan @ 0.8 power factor	1500 kVA		1500 kVA		1360 kVA	
Emissions	Low Fuel		Low Fuel		Low Fuel	
Performance number	DM8027-02		EM0600-01		DM8030-01	
Fuel Consumption						
100% load with fan – L/hr (gal/hr)	308.8	(81.6)	308.8	(81.6)	280.0	(74.0)
75% load with fan – L/hr (gal/hr)	232.5	(61.4)	232.5	(61.4)	212.1	(56.0)
50% load with fan – L/hr (gal/hr)	162.3	(42.9)	162.3	(42.9)	150.1	(39.6)
25% load with fan – L/hr (gal/hr)	97.4	(25.7)	97.4	(25.7)	91.4	(24.1)
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 – m^3/min (cfm)	1359	(47992)	1359	(47992)	1359	(47992)
Engine coolant capacity – L (gal)	156.8	(41.4)	156.8	(41.4)	156.8	(41.4)
Radiator coolant capacity – L (gal)	130	(34)	130	(34)	130	(34)
Total coolant capacity – L (gal)	286.8	(75.4)	286.8	(75.4)	286.8	(75.4)
Inlet Air						
Combustion air inlet flow rate – m^3/min (cfm)	108.3	(3824.1)	108.3	(3824.1)	100.7	(3555.7)
Exhaust System						
Exhaust stack gas temperature – °C (°F)	392.4	(738.3)	392.4	(738.3)	389.0	(732.2)
Exhaust gas flow rate – m^3/min (cfm)	253.2	(8940.6)	253.2	(8940.6)	232.6	(8213.1)
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)	480	(27297)	480	(27297)	447	(25420)
Heat rejection to exhaust (total) – kW (Btu/min)	1030	(58574)	1030	(58574)	940	(53456)
Heat rejection to aftercooler – kW (Btu/min)	331	(18823)	331	(18823)	281	(15979)
Heat rejection to atmosphere from engine – kW (Btu/min)	111	(6312)	111	(6312)	107	(6085)
Heat rejection from alternator – kW (Btu/min)	58	(3293)	58	(3293)	50	(2849)
Emissions* (Nominal)						
NOx mg/Nm^3 (g/hp-h)	3243.7	(6.58)	3243.7	(6.58)	3295.1	(6.69)
CO mg/Nm^3 (g/hp-h)	698.4	(1.42)	698.4	(1.42)	714.9	(1.45)
HC mg/Nm^3 (g/hp-h)	69.9	(0.14)	69.9	(0.14)	79.6	(0.16)
PM mg/Nm^3 (g/hp-h)	32.0	(0.06)	32.0	(0.06)	33.5	(0.07)
Emissions* (Potential Site Variation)						
NOx mg/Nm^3 (g/hp-h)	3892.5	(7.90)	3892.5	(7.90)	3954.1	(8.03)
CO mg/Nm^3 (g/hp-h)	1257.1	(2.55)	1257.1	(2.55)	1286.8	(2.61)
HC mg/Nm^3 (g/hp-h)	93.0	(0.19)	93.0	(0.19)	105.9	(0.22)
PM mg/Nm^3 (g/hp-h)	44.8	(0.09)	44.8	(0.09)	46.9	(0.10)

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

Package Performance

Low Fuel Consumption (60°C SCAC)

Performance	Standby		Mission Critical		Prime	
Frequency	50 Hz		50 Hz		50 Hz	
Gen set power rating with fan	1200 ekW		1200 ekW		1088 ekW	
Gen set power rating with fan @ 0.8 power factor	1500 kVA		1500 kVA		1360 kVA	
Emissions	Low Fuel		Low Fuel		Low Fuel	
Performance number	DM8028-01		EM1251-00		DM8031-01	
Fuel Consumption						
100% load with fan – L/hr (gal/hr)	312.7	(82.6)	312.7	(82.6)	285.4	(75.4)
75% load with fan – L/hr (gal/hr)	239.1	(63.2)	239.1	(63.2)	218.3	(57.7)
50% load with fan – L/hr (gal/hr)	165.5	(43.7)	165.5	(43.7)	152.5	(40.3)
25% load with fan – L/hr (gal/hr)	95.5	(25.2)	95.5	(25.2)	89.1	(23.5)
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 – m^3/min (cfm)	1359	(47992)	1359	(47992)	1359	(47992)
Engine coolant capacity – L (gal)	156.8	(41.4)	156.8	(41.4)	156.8	(41.4)
Radiator coolant capacity – L (gal)	130	(34)	130	(34)	130	(34)
Total coolant capacity – L (gal)	286.8	(44.8)	286.8	(44.8)	286.8	(44.8)
Inlet Air						
Combustion air inlet flow rate – m^3/min (cfm)	99.8	(3524.0)	99.8	(3524.0)	92.5	(3265.2)
Exhaust System						
Exhaust stack gas temperature – °C (°F)	448.3	(838.9)	448.3	(838.9)	446.7	(836.0)
Exhaust gas flow rate – m^3/min (cfm)	253.7	(8958.2)	253.7	(8958.2)	235.0	(8296.4)
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)	510	(29003)	510	(29003)	475	(27036)
Heat rejection to exhaust (total) – kW (Btu/min)	1104	(62782)	1104	(62782)	1011	(57517)
Heat rejection to aftercooler – kW (Btu/min)	265	(15070)	265	(15070)	221	(12581)
Heat rejection to atmosphere from engine – kW (Btu/min)	125	(7109)	125	(7109)	121	(6877)
Heat rejection from alternator – kW (Btu/min)	58	(3293)	58	(3293)	50	(2849)
Emissions* (Nominal)						
NOx mg/Nm^3 (g/hp-h)	4446.4	(9.14)	4446.4	(9.14)	4298.6	(8.89)
CO mg/Nm^3 (g/hp-h)	632.5	(1.30)	632.5	(1.30)	642.3	(1.33)
HC mg/Nm^3 (g/hp-h)	63.9	(0.13)	63.9	(0.13)	73.0	(0.15)
PM mg/Nm^3 (g/hp-h)	25.8	(0.05)	25.8	(0.05)	26.6	(0.05)
Emissions* (Potential Site Variation)						
NOx mg/Nm^3 (g/hp-h)	5335.6	(10.97)	5335.6	(10.97)	5158.3	(10.66)
CO mg/Nm^3 (g/hp-h)	1138.5	(2.34)	1138.5	(2.34)	1156.1	(2.39)
HC mg/Nm^3 (g/hp-h)	85	(0.17)	85	(0.17)	97.0	(0.20)
PM mg/Nm^3 (g/hp-h)	36.1	(0.07)	36.1	(0.07)	37.2	(0.08)

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

Package Performance

Low Fuel Consumption (90°C SCAC)

Performance	Standby		Mission Critical		Prime	
Frequency	50 Hz		50 Hz		50 Hz	
Gen set power rating with fan	1200 ekW		1200 ekW		1088 ekW	
Gen set power rating with fan @ 0.8 power factor	1500 kVA		1500 kVA		1360 kVA	
Emissions	Low Fuel		Low Fuel		Low Fuel	
Performance number	DM8029-01		EM1252-01		DM8032-01	
Fuel Consumption						
100% load with fan – L/hr (gal/hr)	319.6	(84.4)	319.6	(84.4)	288.5	(76.2)
75% load with fan – L/hr (gal/hr)	238.6	(63.0)	238.6	(63.0)	218.3	(57.7)
50% load with fan – L/hr (gal/hr)	168.4	(44.5)	168.4	(44.5)	155.8	(41.2)
25% load with fan – L/hr (gal/hr)	98.5	(26.0)	98.5	(26.0)	91.7	(24.2)
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 – m^3/min (cfm)	1359	(47992)	1359	(47992)	1359	(47992)
Engine coolant capacity – L (gal)	156.8	(41.4)	156.8	(41.4)	156.8	(41.4)
Radiator coolant capacity – L (gal)	130	(34)	130	(34)	130	(34)
Total coolant capacity – L (gal)	286.8	(75.4)	286.8	(75.4)	286.8	(75.4)
Inlet Air						
Combustion air inlet flow rate – m^3/min (cfm)	96.0	(3389.8)	96.0	(3389.8)	87.5	(3089.6)
Exhaust System						
Exhaust stack gas temperature – °C (°F)	492.7	(918.9)	492.7	(918.9)	484.7	(904.5)
Exhaust gas flow rate – m^3/min (cfm)	259.7	(9170.1)	259.7	(9170.1)	234.6	(8283.7)
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)	541	(30766)	541	(30766)	506	(28775)
Heat rejection to exhaust (total) – kW (Btu/min)	1154	(65626)	1154	(65626)	1056	(60053)
Heat rejection to aftercooler – kW (Btu/min)	214	(12170)	214	(12170)	176	(10008)
Heat rejection to atmosphere from engine – kW (Btu/min)	139	(7905)	139	(7905)	134	(7620)
Heat rejection from alternator – kW (Btu/min)	58	(3293)	58	(3293)	50	(2849)
Emissions* (Nominal)						
NOx mg/Nm^3 (g/hp-h)	3538.4	(7.44)	3538.4	(7.44)	3990.5	(8.33)
CO mg/Nm^3 (g/hp-h)	594.1	(1.25)	594.1	(1.25)	601.0	(1.25)
HC mg/Nm^3 (g/hp-h)	70.2	(0.15)	70.2	(0.15)	83.3	(0.17)
PM mg/Nm^3 (g/hp-h)	25.3	(0.05)	25.3	(0.05)	26.0	(0.05)
Emissions* (Potential Site Variation)						
NOx mg/Nm^3 (g/hp-h)	4246.1	(8.93)	4246.1	(8.93)	4788.6	(10.00)
CO mg/Nm^3 (g/hp-h)	1069.4	(2.25)	1069.4	(2.25)	1081.8	(2.26)
HC mg/Nm^3 (g/hp-h)	93.4	(0.20)	93.4	(0.20)	110.8	(0.23)
PM mg/Nm^3 (g/hp-h)	35.4	(0.07)	35.4	(0.07)	36.4	(0.08)

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

Package Performance

Low Emissions (30°C SCAC)

Performance	Standby		Mission Critical		Prime	
Frequency	50 Hz		50 Hz		50 Hz	
Gen set power rating with fan	1200 ekW		1200 ekW		1088 ekW	
Gen set power rating with fan @ 0.8 power factor	1500 kVA		1500 kVA		1360 kVA	
Emissions	Low Emissions		Low Emissions		Low Emissions	
Performance number	DM8036-02		EM0601-01		DM8039-02	
Fuel Consumption						
100% load with fan – L/hr (gal/hr)	331.5	(87.6)	331.5	(87.6)	298.7	(78.9)
75% load with fan – L/hr (gal/hr)	247.5	(65.4)	247.5	(65.4)	224.6	(59.3)
50% load with fan – L/hr (gal/hr)	167.2	(44.2)	167.2	(44.2)	153.9	(40.6)
25% load with fan – L/hr (gal/hr)	97.3	(25.7)	97.3	(25.7)	91.0	(24.0)
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 – m^3/min (cfm)	1359	(47992)	1359	(47992)	1359	(47992)
Engine coolant capacity – L (gal)	156.8	(41.4)	156.8	(41.4)	156.8	(41.4)
Radiator coolant capacity – L (gal)	130	(34)	130	(34)	130	(34)
Total coolant capacity – L (gal)	286.8	(44.8)	286.8	(44.8)	286.8	(44.8)
Inlet Air						
Combustion air inlet flow rate – m^3/min (cfm)	116.5	(4113.7)	116.5	(4113.7)	108.7	(3838.2)
Exhaust System						
Exhaust stack gas temperature – °C (°F)	409.9	(769.8)	409.9	(769.8)	397.4	(747.3)
Exhaust gas flow rate – m^3/min (cfm)	279.7	(9876.3)	279.7	(9876.3)	255.8	(9032.3)
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)	511	(29060)	511	(29060)	472	(26842)
Heat rejection to exhaust (total) – kW (Btu/min)	1182	(67218)	1182	(67218)	1057	(60109)
Heat rejection to aftercooler – kW (Btu/min)	410	(23316)	410	(23316)	350	(19903)
Heat rejection to atmosphere from engine – kW (Btu/min)	124	(7052)	124	(7052)	115	(6540)
Heat rejection from alternator – kW (Btu/min)	58	(3293)	58	(3293)	50	(2849)
Emissions* (Nominal)						
NOx mg/Nm^3 (g/hp-h)	1819.2	(3.97)	1819.2	(3.97)	1802.8	(3.9)
CO mg/Nm^3 (g/hp-h)	133.2	(0.29)	133.2	(0.29)	142.1	(0.3)
HC mg/Nm^3 (g/hp-h)	76.9	(0.17)	76.9	(0.17)	90.6	(0.2)
PM mg/Nm^3 (g/hp-h)	36.0	(0.08)	36.0	(0.08)	37.6	(0.1)
Emissions* (Potential Site Variation)						
NOx mg/Nm^3 (g/hp-h)	2183.0	(4.76)	2183.0	(4.76)	2163.4	(4.68)
CO mg/Nm^3 (g/hp-h)	239.8	(0.52)	239.8	(0.52)	255.8	(0.55)
HC mg/Nm^3 (g/hp-h)	102.3	(0.22)	102.3	(0.22)	120.5	(0.26)
PM mg/Nm^3 (g/hp-h)	50.4	(0.11)	50.4	(0.11)	52.6	(0.11)

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

Package Performance

Low Emissions (60°C SCAC)

Performance	Standby		Mission Critical		Prime	
Frequency	50 Hz		50 Hz		50 Hz	
Gen set power rating with fan	1200 ekW		1200 ekW		1088 ekW	
Gen set power rating with fan @ 0.8 power factor	1500 kVA		1500 kVA		1360 kVA	
Emissions	Low Emissions		Low Emissions		Low Emissions	
Performance number	DM8037-01		EM1262-00		DM8040-01	
Fuel Consumption						
100% load with fan – L/hr (gal/hr)	336.4	(88.9)	336.4	(88.9)	307.3	(81.2)
75% load with fan – L/hr (gal/hr)	256.9	(67.9)	256.9	(67.9)	232.6	(61.5)
50% load with fan – L/hr (gal/hr)	172	(45.4)	172	(45.4)	158.8	(42.0)
25% load with fan – L/hr (gal/hr)	100.2	(26.5)	100.2	(26.5)	93.4	(24.7)
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 – m^3/min (cfm)	1359	(47992)	1359	(47992)	1359	(47992)
Engine coolant capacity – L (gal)	156.8	(41.4)	156.8	(41.4)	156.8	(41.4)
Radiator coolant capacity – L (gal)	130	(34)	130	(34)	130	(34)
Total coolant capacity – L (gal)	286.8	(75.4)	286.8	(75.4)	286.8	(75.4)
Inlet Air						
Combustion air inlet flow rate – m^3/min (cfm)	109.4	(3863.0)	109.4	(3863.0)	102.5	(3619.3)
Exhaust System						
Exhaust stack gas temperature – °C (°F)	466.0	(870.8)	466.0	(870.8)	463.6	(866.5)
Exhaust gas flow rate – m^3/min (cfm)	284.6	(10049.3)	284.6	(10049.3)	264.4	(9336.0)
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)	540	(30709)	540	(30709)	501	(28491)
Heat rejection to exhaust (total) – kW (Btu/min)	1266	(71995)	1266	(71995)	1148	(65283)
Heat rejection to aftercooler – kW (Btu/min)	331	(18823)	331	(18823)	278	(15809)
Heat rejection to atmosphere from engine – kW (Btu/min)	138	(7848)	138	(7848)	131	(7449)
Heat rejection from alternator – kW (Btu/min)	58	(3293)	58	(3293)	50	(2849)
Emissions* (Nominal)						
NOx mg/Nm^3 (g/hp-h)	1958.9	(4.33)	1958.9	(4.33)	1927.4	(4.29)
CO mg/Nm^3 (g/hp-h)	645.3	(1.43)	645.3	(1.43)	662.1	(1.47)
HC mg/Nm^3 (g/hp-h)	63.5	(0.14)	63.5	(0.14)	78.4	(0.17)
PM mg/Nm^3 (g/hp-h)	32.7	(0.07)	32.7	(0.07)	34.8	(0.08)
Emissions* (Potential Site Variation)						
NOx mg/Nm^3 (g/hp-h)	2350.7	(5.20)	2350.7	(5.20)	2312.9	(5.15)
CO mg/Nm^3 (g/hp-h)	1161.5	(2.57)	1161.5	(2.57)	1191.8	(2.65)
HC mg/Nm^3 (g/hp-h)	84.5	(0.19)	84.5	(0.19)	104.3	(0.23)
PM mg/Nm^3 (g/hp-h)	45.8	(0.10)	45.8	(0.10)	48.7	(0.11)

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

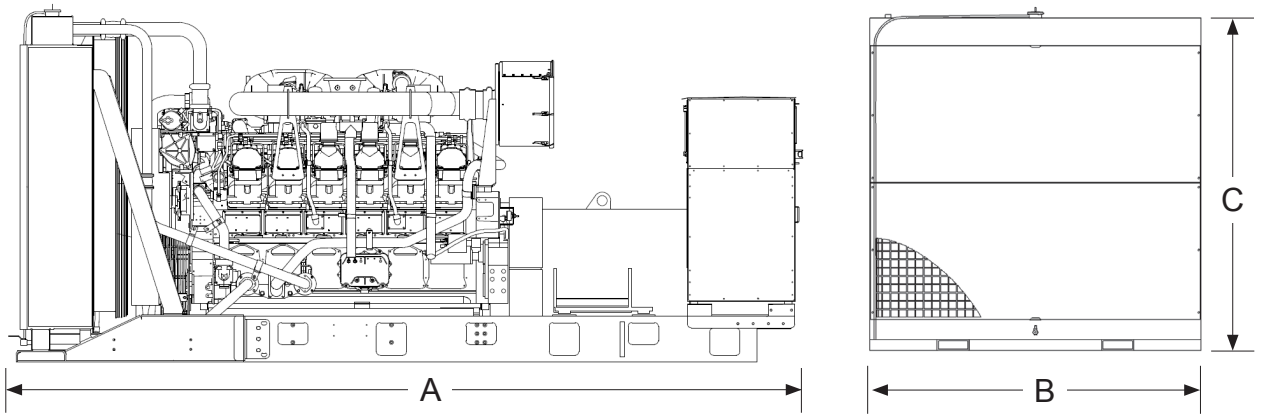
Package Performance

Low Emissions (90°C SCAC)

Performance	Standby		Mission Critical		Prime	
Frequency	50 Hz		50 Hz		50 Hz	
Gen set power rating with fan	1200 ekW		1200 ekW		1088 ekW	
Gen set power rating with fan @ 0.8 power factor	1500 kVA		1500 kVA		1360 kVA	
Emissions	Low Emissions		Low Emissions		Low Emissions	
Performance number	DM8038-00		EM1263-00		DM8041-01	
Fuel Consumption						
100% load with fan – L/hr (gal/hr)	315.1	(83.2)	315.1	(83.2)	288.4	(76.2)
75% load with fan – L/hr (gal/hr)	243.7	(64.4)	243.7	(64.4)	224.0	(59.2)
50% load with fan – L/hr (gal/hr)	173.4	(45.8)	173.4	(45.8)	159.9	(42.2)
25% load with fan – L/hr (gal/hr)	—	—	—	—	92.2	(24.4)
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 – m^3/min (cfm)	1359	(47992)	1359	(47992)	1359	(47992)
Engine coolant capacity – L (gal)	156.8	(41.4)	156.8	(41.4)	156.8	(41.4)
Radiator coolant capacity – L (gal)	130	(34)	130	(34)	130	(34)
Total coolant capacity – L (gal)	286.8	(75.4)	286.8	(75.4)	286.8	(75.4)
Inlet Air						
Combustion air inlet flow rate – m^3/min (cfm)	98.0	(3460.8)	98.0	(3460.8)	90.7	(3202.6)
Exhaust System						
Exhaust stack gas temperature – °C (°F)	462.4	(864.3)	462.4	(864.3)	464.1	(867.4)
Exhaust gas flow rate – m^3/min (cfm)	254.3	(8980.5)	254.3	(8980.5)	235.4	(8312.0)
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)	543	(30880)	543	(30880)	506	(28775)
Heat rejection to exhaust (total) – kW (Btu/min)	1156	(65742)	1156	(65742)	1059	(60223)
Heat rejection to aftercooler – kW (Btu/min)	232	(13194)	232	(13194)	187	(10633)
Heat rejection to atmosphere from engine – kW (Btu/min)	140	(7962)	140	(7962)	135	(7678)
Heat rejection from alternator – kW (Btu/min)	58	(3293)	58	(3293)	50	(2849)
Emissions* (Nominal)						
NOx mg/Nm^3 (g/hp-h)	4068.0	(8.49)	4068.0	(8.49)	3891.5	(8.13)
CO mg/Nm^3 (g/hp-h)	616.1	(1.29)	616.1	(1.29)	623.5	(1.30)
HC mg/Nm^3 (g/hp-h)	70.6	(0.15)	70.6	(0.15)	84.7	(0.18)
PM mg/Nm^3 (g/hp-h)	25.2	(0.05)	25.2	(0.05)	26.0	(0.05)
Emissions* (Potential Site Variation)						
NOx mg/Nm^3 (g/hp-h)	4843.9	(10.12)	4843.9	(10.12)	4669.9	(9.75)
CO mg/Nm^3 (g/hp-h)	1100.9	(2.30)	1100.9	(2.30)	1122.3	(2.34)
HC mg/Nm^3 (g/hp-h)	90.9	(0.19)	90.9	(0.19)	112.7	(0.24)
PM mg/Nm^3 (g/hp-h)	33.5	(0.07)	33.5	(0.07)	36.4	(0.08)

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

Weights and Dimensions



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
5257 (207.0)	1975 (77.8)	2367 (93.2)	11 350 (25,010)

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 35º API [16°C (60ºF)] gravity having an LHV of 42,780 kJ/kg (18,390 Btu/lb) when used at 29ºC (85ºF) and weighing 838.9 g/liter (7.001 lbs/U.S. gal.)