

# Cat® C32B

## Diesel Generator Sets



Image shown may not reflect actual configuration.

Bore – mm (in)	145 (5.7)
Stroke – mm (in)	162 (6.4)
Displacement – L (in <sup>3</sup> )	32.1 (1959)
Compression Ratio	15.0:1
Aspiration	TA
Fuel System	EUI
Governor Type	ADEM™ A4

Standby 60 Hz ekW (kVA)	Mission Critical 60 Hz ekW (kVA)	Prime 60 Hz ekW (kVA)	Continuous 60 Hz ekW (kVA)	Emissions Performance
1000 (1250)	1000 (1250)	910 (1137)	830 (1038)	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 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

#### Cat Energy Control System (ECS) / GCCPs

- User-friendly interface and navigation
- Multiple parameters are monitored & displayed simultaneously for full visibility
- The module can be configured to suit a wide range of applications for user flexibility

#### Warranty

- 24 months/1000-hour warranty for standby and mission critical ratings
- 12 months/unlimited hour warranty for prime and continuous ratings
- 5 years Platinum Complimentary Extended Service Coverage

#### 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
- Heavy duty

#### Muffler

- Industrial grade (15 dB)

#### Starting

- Standard batteries
- Oversized batteries
- Standard electric starter
- Dual electric starter
- Jacket water heater

### Alternator

#### Output voltage

- 220V  480V
- 240V  600V
- 380V  2400V
- 400V  4160V

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

- 150 °C
- 125 °C/130 °C
- 105 °C
- 80 °C

#### Winding type

- Random wound
- Form wound

#### Excitation

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

#### Attachments

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

### Power Termination

#### Type

- Bus bar
- Circuit breaker
- 400A  800A
- 1200A  1600A
- 2000A  2500A
- 3000A  3200A
- IEC  UL
- 3-pole  4-pole
- Manually operated
- Electrically operated

#### Trip Unit

- LSI  LSI-G
- LSI-G-P

### Factory Enclosure

- Weather protective
- Sound attenuated

#### Attachments

- Cold weather bundle
- DC lighting package
- AC lighting package
- Motorized louvers

### Fuel Tank

#### Controller

- Sub-base
- 1000 gal (3785 L)
- 2000 gal (7571 L)
- 3600 gal (13627 L)

### Control System

#### Controller

- GCCP 1.2
- CAT ECS 100
- CAT ECS 200

#### Attachments

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

### Charging

- Battery charger – 10A

### Vibration Isolators

- Rubber
- Spring
- Seismic rated

### Telematics

#### 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

- UL 2200 Listed
- CSA
- IBC seismic certification
- OSHPD pre-approval

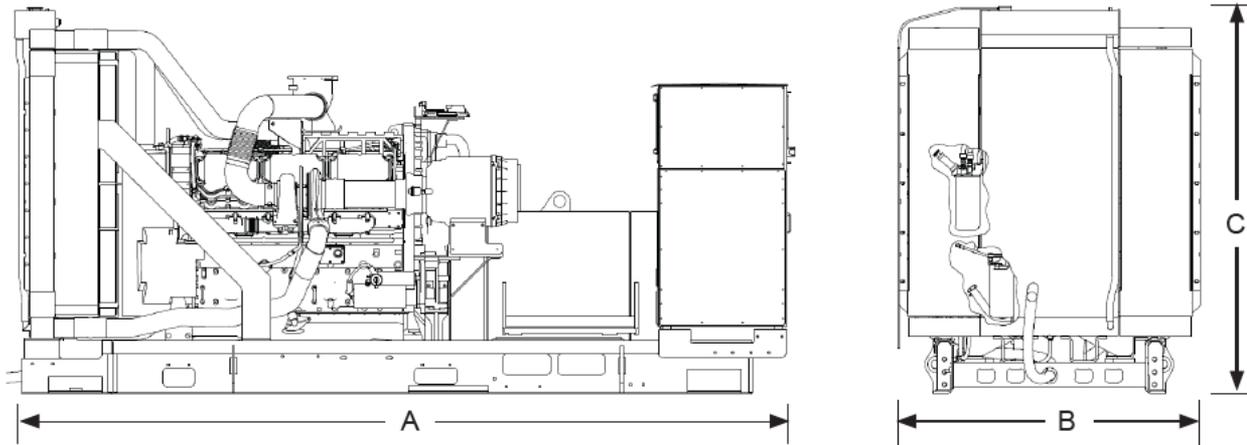
**Note:** Some options may not be available on all models. Certifications may not be available with all model configurations. Consult factory for availability.

**Package Performance**

<b>Performance</b>	<b>Standby</b>		<b>Mission Critical</b>		<b>Prime</b>		<b>Continuous</b>	
Frequency	60 Hz		60 Hz		60 Hz		60 Hz	
Genset power rating with fan	1000 ekW		1000 ekW		910 ekW		830 ekW	
Genset power rating with fan @ 0.8 power factor	1250 kVA		1250 kVA		1138 kVA		1038 kVA	
Emissions	Low Fuel		Low Fuel		Low Fuel		Low Fuel	
Performance number	EM7473		EM7480		EM7466		EM7627	
<b>Fuel Consumption</b>								
100% load with fan – L/hr (gal/hr)	262.7	(69.4)	262.7	(69.4)	238.6	(63.0)	217.9	(57.6)
75% load with fan – L/hr (gal/hr)	195.9	(51.7)	195.9	(51.7)	179.2	(47.3)	164.8	(43.5)
50% load with fan – L/hr (gal/hr)	135.9	(35.9)	135.9	(35.9)	125.8	(33.2)	117.2	(31.0)
25% load with fan – L/hr (gal/hr)	80.8	(21.3)	80.8	(21.3)	75.9	(20.0)	71.4	(18.9)
<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)	1175	(41494)	1175	(41494)	1175	(41494)	1175	(41494)
Engine coolant capacity – L (gal)	55.0	(14.5)	55.0	(14.5)	55.0	(14.5)	55.0	(14.5)
Radiator coolant capacity – L (gal)	36.0	(9.0)	36.0	(9.0)	36.0	(9.0)	36.0	(9.0)
Total coolant capacity – L (gal)	91.0	(23.5)	91.0	(23.5)	91.0	(23.5)	91.0	(23.5)
<b>Inlet Air</b>								
Combustion air inlet flow rate – m <sup>3</sup> /min (CFM)	82.6	(2915.6)	82.6	(2915.6)	77.8	(2746.7)	71.2	(2515.8)
<b>Exhaust System</b>								
Exhaust stack gas temperature – °C (°F)	473.4	(884.2)	473.4	(884.2)	456.1	(853.0)	452.0	(845.6)
Exhaust gas flow rate – m <sup>3</sup> /min (CFM)	214.7	(7582.8)	214.7	(7582.8)	196.0	(6922.5)	179.6	(6341.2)
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)	359	(20395)	359	(20395)	324	(18431)	305	(17363)
Heat rejection to exhaust (total) – kW (BTU/min)	965	(54857)	965	(54857)	866	(49230)	790	(44907)
Heat rejection to aftercooler – kW (BTU/min)	249	(14173)	249	(14173)	213	(12110)	172	(9774)
Heat rejection to atmosphere from engine – kW (BTU/min)	118	(6709)	118	(6709)	128	(7274)	130	(7370)
Heat rejection from alternator – kW (BTU/min)	55	(3131)	55	(3131)	50	(2846)	45	(2561)
<b>Emissions* (Nominal)</b>								
NO <sub>x</sub> mg/Nm <sup>3</sup> (g/hp-h)	3009.7	(6.09)	3009.7	(6.09)	3019.6	(6.09)	3099.7	(6.26)
CO mg/Nm <sup>3</sup> (g/hp-h)	89.8	(0.18)	89.8	(0.18)	101.9	(0.21)	118.3	(0.24)
HC mg/Nm <sup>3</sup> (g/hp-h)	5.1	(0.01)	5.1	(0.01)	5.3	(0.01)	8.2	(0.02)
PM mg/Nm <sup>3</sup> (g/hp-h)	8.3	(0.02)	8.3	(0.02)	7.6	(0.02)	8.3	(0.02)
<b>Emissions* (Potential Site Variation)</b>								
NO <sub>x</sub> mg/Nm <sup>3</sup> (g/hp-h)	3641.8	(7.73)	3641.8	(7.73)	3653.7	(7.37)	3750.6	(7.57)
CO mg/Nm <sup>3</sup> (g/hp-h)	168.0	(0.33)	168.0	(0.33)	190.6	(0.38)	221.3	(0.44)
HC mg/Nm <sup>3</sup> (g/hp-h)	9.7	(0.02)	9.7	(0.02)	10.0	(0.02)	15.5	(0.04)
PM mg/Nm <sup>3</sup> (g/hp-h)	16.2	(0.04)	16.2	(0.04)	14.8	(0.04)	16.2	(0.04)

\*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



Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
4165 (164.0)	1684 (66.3)	2162 (85.1)	6668 (14,700)

**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 kW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year.

**Continuous:** Output available with non-varying load for an unlimited time. Average power output is 70-100% of the continuous power rating. Typical peak demand is 100% of continuous rated kW for 100% of the operating hours.

### Applicable Codes and Standards

AS 1359, UL 2200 3rd edition, UL 489, UL 869A, 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

- 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°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.)

[www.cat.com/electricpower](http://www.cat.com/electricpower)

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