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^3)	32.1 (1959)
Compression Ratio	14.0:1
Aspiration	TA
Fuel System	EUI
Governor Type	ADEM™ A5

Model	Standby / Mission Critical 60 Hz ekW (kVA))	Emissions Performance
D1500	1500 (1875)	U.S. EPA Emergency Stationary (Tier 2)

Standard Features

Cat® Diesel Engine
- Designed and tested to meet the U.S. EPA Emergency Stationary Use Only (Tier 2) emission standards
- Reliable and consistent performance proven in thousands of applications worldwide

Generator Set Package
- Accepts 100% block load and meets NFPA 110 loading requirements
- Conforms to ISO 8528-5 G2 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) / GCCP
- 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 with graphical touchscreen display
- Easily upgradable

Warranty and Cat Extended Service Coverage (ESC)
- 24 months/1000-hour warranty for standby ratings
- Complimentary 5-Year Platinum Cat® Extended Service Coverage (ESC) available on eligible products*

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

Starting
- ❑ Standard batteries
- ❑ Standard electric starter
- ❑ Jacket water heater

Alternator

Output voltage
- ❑ 480V
- ❑ 600V
- ❑ 2400V
- ❑ 4160V

Temperature Rise (over 40°C ambient)
- ❑ 125 °C
- ❑ 105 °C

Winding type
- ❑ Random wound
- ❑ Form wound

Excitation
- ❑ 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
- ❑ UL ❑ IEC
- ❑ 3-pole ❑ 4-pole
- ❑ Manually operated
- ❑ Electrically operated

Trip Unit
- ❑ LSI ❑ LSI-G
- ❑ LSIG-P

Control System

Controller
- ❑ GCCP 1.2
- ❑ CAT ECS 100 and CAT ECS 200

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

Charging

- ❑ Battery charger – 10A
- ❑ Battery charger – 20A
- ❑ Battery charger – 40A

Vibration Isolators

- ❑ Rubber
- ❑ Spring
- ❑ Seismic rated

Telematics

Connectivity
- ❑ Ethernet
- ❑ Cellular

Extended Service Options

Terms
- ❑ 2 year
- ❑ 3 year
- ❑ 5 year
- ❑ 10 year

Coverage
- ❑ Silver
- ❑ Gold
- ❑ Platinum (Complimentary)
- ❑ Platinum

Ancillary Equipment

- ❑ Automatic transfer switch (ATS)
- ❑ Uninterruptible power supply (UPS)
- ❑ Paralleling switchgear
- ❑ Paralleling controls

Certifications

- ❑ UL 2200 Listed
- ❑ 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.

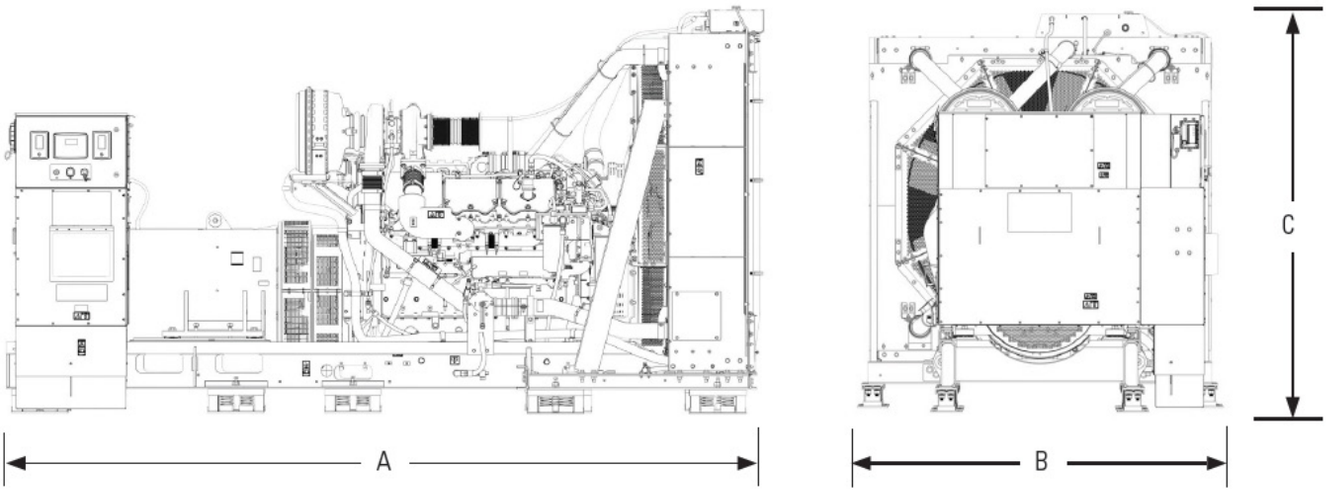
Package Performance

Performance	Standby / Mission Critical	
Frequency	60 Hz	
Genset power rating with fan	1500 ekW	
Genset power rating with fan @ 0.8 power factor	1875 kVA	
Emissions	EPA (Tier 2)	
Performance number	EM7357 / EM7410	
Fuel Consumption		
100% load with fan – L/hr (gal/hr)	385.9	(101.9)
75% load with fan – L/hr (gal/hr)	309.8	(81.8)
50% load with fan – L/hr (gal/hr)	222.2	(58.7)
25% load with fan – L/hr (gal/hr)	125.4	(33.1)
Cooling System		
Radiator air flow restriction (system) – kPa (in. water)	0.12	(0.48)
Radiator air flow – m^3/min (CFM)	1385	(48911)
Engine coolant capacity – L (gal)	55	(14.5)
Radiator coolant capacity – L (gal)	109	(28.8)
Total coolant capacity – L (gal)	164	(43.3)
Inlet Air		
Combustion air inlet flow rate – m^3/min (CFM)	121.9	(4302.9)
Exhaust System		
Exhaust stack gas temperature – °C (°F)	458.6	(857.5)
Exhaust gas flow rate – m^3/min (CFM)	317.1	(11198.4)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(27.0)
Heat Rejection		
Heat rejection to jacket water – kW (BTU/min)	459	(26109)
Heat rejection to exhaust (total) – kW (BTU/min)	1403	(79792)
Heat rejection to aftercooler – kW (BTU/min)	490	(27853)
Heat rejection to atmosphere from engine – kW (BTU/min)	265	(15093)
Heat rejection from alternator – kW (BTU/min)	79	(4492)
Emissions* (Nominal)		
NO_x mg/Nm^3 (g/hp-h)	2844.1	(5.87)
CO mg/Nm^3 (g/hp-h)	82.0	(0.19)
HC mg/Nm^3 (g/hp-h)	42.4	(0.10)
PM mg/Nm^3 (g/hp-h)	5.7	(0.02)
Emissions* (Potential Site Variation)		
NO_x mg/Nm^3 (g/hp-h)	3441.4	(7.11)
CO mg/Nm^3 (g/hp-h)	153.3	(0.35)
HC mg/Nm^3 (g/hp-h)	80.1	(0.19)
PM mg/Nm^3 (g/hp-h)	11.2	(0.03)

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

C32B Diesel Generator Sets
Electric Power

Weights and Dimensions



Standby / Mission Critical 60 Hz , ekW (kVA)	Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
1500 (1875)	5080 (200)	2286 (90)	2447 (96.3) / 2602 (103)*	9712 (21411)

Note: For reference only. Do not use for installation design. Contact your local Cat dealer for precise weights and dimensions.
* Generator set package height with isolators.

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

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.

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. Site level review needed for NFPA70. Please consult your local Cat dealer for availability.

*Coverage subject to terms and conditions. Eligibility criteria and program availability subject to change without notice. No additional warranty, representation, or obligation, express or implied, is created or extended beyond those expressly set forth in the relevant ESC terms.

www.cat.com/electricpower

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LEHE23262-02 (05/26)