Cat® C32B
Diesel Generator Sets

Image shown might not reflect actual configuration.

Bore – mm (in)	145 (5.7)
Stroke – mm (in)	162 (6.4)
Displacement – L (in³)	32.1 (1959), V12
Compression Ratio	14.0:1
Aspiration	TA
Fuel System	EUI
Governor Type	ADEM™ A5

Model	Standby / Mission Critical 50 Hz, kVA (ekW)	Emission Strategy
DE1675	1675 (1340)	Low BSFC

Standard Features

Cat® Diesel Engine
- Designed and optimized for best fuel consumption
- Reliable and consistent performance proven in thousands of applications worldwide
- Certified alternative fuels including Hydro treated Vegetable Oil (HVO) which meets EN 15940 or ASTM D975 specification can be used or blended with EN 590 diesel

Generator Set Package
- 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

GCCP Control Panels
- 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
- Flexible packaging options for easy and cost effective installation

Warranty
- 24 months/1000-hour warranty for Standby and Mission Critical 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

Starting
- ❑ Standard batteries
- ❑ Oversized batteries
- ❑ Standard electric starter
- ❑ Heavy duty electric starter
- ❑ Jacket water heater

Radiators
- ❑ Standard
- ❑ High Ambient

Alternator

Output voltage
- ❑ 400V
- ❑ 415V

Temperature Rise (over 40°C ambient)
- ❑ 105°C
- ❑ 125°C
- ❑ 150°C

Winding type
- ❑ Random 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
- ❑ 2500A ❑ 3200A
- ❑ 3-pole ❑ 4-pole
- ❑ Manually operated
- ❑ Electrically operated

Trip Unit
- ❑ LSI
- ❑ LSI-G

Control System

Controller
- ❑ GCCP 1.3
- ❑ GCCP 1.4

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

Charging

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

Vibration Isolators

- ❑ Puck
- ❑ Spring type

Telematics

Connectivity
- ❑ Ethernet
- ❑ Cellular

Extended Service Options

Terms
- ❑ 3 years
- ❑ 5 years
- ❑ 5 years

Coverage
- ❑ Silver
- ❑ Gold

Ancillary Equipment

- ❑ Automatic transfer switch (ATS)
- ❑ Paralleling controls

Certifications

- ❑ CE
- ❑ UKCA

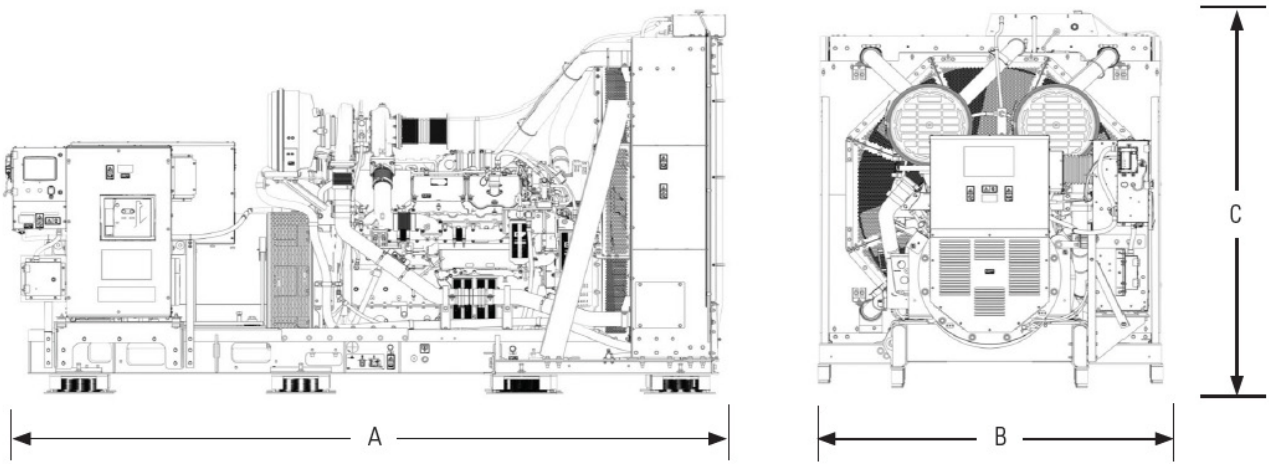
Note: Some options may not be available on all models. Certifications may not be available with all model configurations. Consult factory for availability.

Package Performance

Performance	Standby / Mission Critical	
Performance	50 Hz	
Frequency	1340 ekW	
Genset power rating with fan	1675 kVA	
Genset power rating with fan @ 0.8 pf	Low BSFC	
Emissions	EM7356 / EM7409	
Performance number		
100% load with fan – L/hr (gal/hr)	342.4	(90.4)
75% load with fan – L/hr (gal/hr)	254.0	(67.1)
50% load with fan – L/hr (gal/hr)	178.6	(47.1)
25% load with fan – L/hr (gal/hr)	104.7	(27.6)
Cooling System		
Radiator air flow restriction (system) – kPa (in. water)	0.12	(0.48)
Radiator air flow – m^3/min (CFM)	1269	(44814)
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)	100.1	(3535)
Exhaust System		
Exhaust stack gas temperature – °C (°F)	477	(891)
Exhaust gas flow rate – m^3/min (CFM)	267.6	(9450)
Exhaust system backpressure (maximum allowable) – kPa (in. water)	6.7	(27.0)
Heat Rejection		
Heat rejection to jacket water – kW (BTU/min)	431	(24510)
Heat rejection to exhaust (total) – kW (BTU/min)	1223	(69550)
Heat rejection to aftercooler – kW (BTU/min)	406	(23088)
Heat rejection to atmosphere from engine – kW (BTU/min)	235	(13364)
Heat rejection from alternator – kW (BTU/min)	55	(3128)
Emissions* (Nominal)		
NO_x mg/Nm^3 (g/hp-h)	3001.4	(6.28)
CO mg/Nm^3 (g/hp-h)	179.5	(0.38)
HC mg/Nm^3 (g/hp-h)	20.8	(0.05)
Emissions* (Potential Site Variation)		
NO_x mg/Nm^3 (g/hp-h)	3631.7	(7.59)
CO mg/Nm^3 (g/hp-h)	335.6	(0.71)
HC mg/Nm^3 (g/hp-h)	39.3	(0.09)

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

Weights and Dimensions



Standby / Mission Critical 50 Hz , kVA (ekW)	Dim "A" mm (in)	Dim "B" mm (in)	Dim "C" mm (in)	Dry Weight kg (lb)
1675 (1340)	4710 (186)	2279 (90)	2685 (106)	9142 (20155)

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.

Applicable Codes and Standards

AS1359, IEC60034-1, ISO 3046, ISO 8528, NEMA MG1-33,CE,UKCA.

Note: Codes may not be available in all model configurations. Please consult your local Cat Dealer for availability.

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
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