



Enclosure overview		
Generator Set	C32	3512B
Generator Enclosure Temperature Range	0 to 40°C ⁽¹⁾⁽²⁾	
Cooling Package Temperature Range	0 to 40°C ⁽¹⁾⁽²⁾	
Altitude	100 mASL ⁽¹⁾⁽²⁾	
Overall Dimensions	L436" x W134" x H162"	
Approx Weight ⁽³⁾	48,000 lbs	52,000 lbs
Noise level ⁽⁴⁾	75dBA @ 7m	

⁽¹⁾ Ambient and altitude conditions can cause derate to generator, please consult Specsizer

⁽²⁾ Ambient and altitude conditions determine genset package ventilation and cooling package selection

⁽³⁾ Dry weight, final weight dependent on options to be included within enclosure

⁽⁴⁾ Noise level based on linear average of eight measurements points taken around perimeter of enclosure, in free field conditions (measurement points located 1.2m above ground level and 7m away from enclosure surface)

Cat® Walk-In Sound Attenuated Enclosure for C32 or 3512B

The Cat Walk-In Sound Attenuated Enclosure for C32 or 3512B provides opportunity to purchase Cat designed, manufactured, tested and guaranteed sound attenuated enclosures specifically for C32 and 3512B generator sets. Enclosures can be witness tested prior to dispatch. Enclosures come with genset upfit complete, reducing installation time at site and allowing rapid commissioning at final site.

Features:

- Low Noise Level – 75Dba@7M
- Integrated Silencer System
- Walk In Enclosure, rated to 100mph
- Easy installation on site

Standard Factory Installed Equipment

Features	Description
General enclosure	Durable, weather-resistant steel construction, treated for corrosion resistance.
Attenuation	Mineral wool covered with perforated galvanized metal sheets
Finish	Finish Color RAL 9001 white, painted with high solids urethane paint for durability and appearance.
Genset mounting	Integral within enclosure base and sized according to static requirements.
Floor	Integral sub-base fuel tank.
Roof	Lined with mineral wool acoustic insulation and perforated galvanized metal sheets. Sloped to shed water.
Walls	Folded steel sheet panels mechanically fastened in position. Lined with mineral wool acoustic insulation and perforated galvanized metal sheets.
Personnel access doors	Doors are supplied as required to provide service and personnel access. Doors are fitted with: <ul style="list-style-type: none"> • hinges • heavy duty handles • industrial lock • door latch • slamlock type closing, complete with internal panic release button
Exhaust pipework	Internal pipework is insulated as required to prevent additional heat loads to the interior of the enclosure. Genset consist to include stainless steel flexible fitting from genset to exhaust system.
Exhaust silencer	Critical grade muffler located within enclosure. Thermal expansion is taken into design consideration. Vertical discharge of exhaust gases through enclosure roof, complete with rain cap.
Enclosure ventilation	Combustion and Cooling Air enters enclosure through enclosure end, via integrated inlet hood. Exhaust Air exits enclosure through gravity louvers on enclosure end, and discharges vertically via outlet hood.
Fuel System	UL142 double walled sub-base 2600 gallon fuel tank, and interconnecting supply and return pipework to generator included. Alarm panel for Tank Leak Detection, and High/Low Fuel Level. Fill point, bungs and vents located at end of tank, external to enclosure.
Wiring	All cabling is secured and protected
Lighting	120 VAC bulkhead type fluorescent lamps are installed and wired to auxiliary power. Providing high quality, warm white color, complete with reflector and safety guard. Grounding connected to all necessary points. 24 VDC LED bulkhead type emergency lighting fitted above each door, powered form the genset battery via a timed switch located at the door.
Emergency push buttons	Two (2) emergency stop push-buttons provided, one (1) on each side of enclosure. Located close to access doors.
Genset power cable exit	Cable exit via stub up on sub tank base. Cable exit supplied with a solid gland plate to be drilled and glanded as required at site by others.
Genset batteries	Caterpillar starting batteries supplied with genset and installed according to Caterpillar rating guidelines for selected diesel genset.

Optional Equipment

Enclosure	Double width doors (x1 per side)
Base	Skid base in lieu of tank base Spill Containment
Fuel System	Triplex Fuel Filters Overfill Protection Valve Tank vent terminating at height of 12'
Electrical	Overfill Protection Valve Interior Receptacle (x1)
Other	Cold Weather Package includes - Motorized Inlet Louvers - Space Heater (5kW)

Certifications and Standards

Applicable Standards	Codes and standards of the following organizations as referenced in this document are a part of this specification:		
	Underwriters Laboratories	<u>UL</u>	UL142 Above Ground Flammable Liquid Tanks
	National Fire Protection Association	<u>NFPA</u> NFPA30	Flammable and Combustible Liquids Codes
		NFPA37	Installation and Use of Stationary Combustion Engines and Gas Turbines
		NFPA70	National Electric Code (NEC)
	Occupational Health and Safety Administration	OHSA	
Built To, (Not Certified)	International Building Code	IBC	
	American Society of Civil Engineers	<u>ASCE</u> ASCE7-10	Minimum Design Loads for Building and other Structures

World Wide Product Support

- Cat dealers provide extensive post sale support including maintenance and repair agreements.
- Cat dealers have over 1,800 dealer branch stores operating in 200 countries.
- The Cat S•O•SSM program cost effectively detects internal engine component condition, even the presence of unwanted fluids and combustion by-products.



Materials and specifications are subject to change without notice. The International System of Units (SI) is used in this publication. CAT, CATERPILLAR, their respective logos, ADEM, S•O•S, “Caterpillar Yellow” and the “Power Edge” trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.