



Cat[®] C2.2B

Marine Generator

Cat[®] C2.2B marine generator is engineered for advanced functionality. This low-noise, intelligent, and future-ready genset can be sold independently or as part of Cat Marine product solutions. The flexible design ensures seamless installation and single-side servicing for easy maintenance. The Cat C2.2B allows for the integration of multiple power sources, from shore power to batteries, helping to ensure an uninterrupted power supply. It meets U.S. EPA Tier 3 emissions standards at an engine speed of 1800 rpm, delivering up to 26 KWe of power. The enclosure is 20% smaller compared to the C2.2, offering a more compact footprint without compromising performance.

Features and Benefits:

ENGINE DESIGN

- Yachting-grade focused sound enclosure for noise reduction operation
- Compact size to increase installation options
- Digital system controller for easy operation and interface
- Single-side servicing for easy maintenance
- Built for easy integration, the optional handed connection panel simplifies engine room plumbing and cuts install time
- Smart communication helps to ensure seamless connectivity with digital vessel control systems for efficient operations
- Flexible installation options give boatbuilders the freedom to optimize engine room layouts and enhance design efficiency
- Seamlessly integrates multiple power sources, helping to ensure continuous power when switching between shore power, generators, and batteries, meaning more time on the water

ASSURED POWER

- Seamlessly integrates gensets, shore, and future battery power to help to protect onboard systems. Supports to ensure uninterrupted, reliable operation through transitions and variable loads, with advanced management safeguarding mission-critical functions

FLEXIBLE, SCALABLE POWER INTEGRATION

- Single-side servicing simplifies access and minimizes maintenance impact. Standard digital protocols keep systems connected and flexible, while scalable design supports patrol and auxiliary platforms

SMOOTH OPERATIONS

- Delivers low-noise operation for crew endurance and clear control. Efficient power reduces strain and fuel use. Built for continuous maritime duty, with Caterpillar reliability and global support for fleet-ready performance

Specifications

Configuration	Inline 4, 4-Stroke Cycle Diesel
Emissions	U.S. EPA Tier 3
Rated Engine Speed	1500 / 1800 rpm
Displacement	2.2 L (135 in ³)
Aspiration	Naturally Aspirated / Turbocharged
Governor	Electronic Isochronous

Flywheel Housing	SAE No. 04
Bore x Stroke	84 mm x 100 mm / 3.31 in x 3.94 in
Refill Capacity	Lube Oil System w/ oil filter change: 10.6 L (2.8 gal)
Oil Change Interval	500 hours
Rotation (From Flywheel End)	Counterclockwise
Cooling	Heat Exchanger Cooled



Ratings and Fuel Consumption

Generator Sets

PC Rating Single Phase ekW@1.0pf	Single Phase PC eKW@1.0pf*	kVA	Hz	RPM	U.S. gal/h	g/bkWh	IMO	U.S. EPA	EU	China
19.0	17.3	18.0	60	1800	1.63	256.4	NST	T3C	NC	NC
26.0	23.6	25.0	60	1800	2.24	239.8	NST	T3C	NC	NC
16.0	14.5	15.0	50	1500	1.37	242.6	NST	T3C	NC	NC
21.0	19.1	20.0	50	1500	1.88	233.0	NST	NC	NC	NC

* PC rating based on ISO 8528-1 prime power inclusive of +10% capacity .
Operating unlimited annual hours with a load factor <60%. No Overload is permitted.

Rating Definition Generator Sets and Auxiliary Engines:

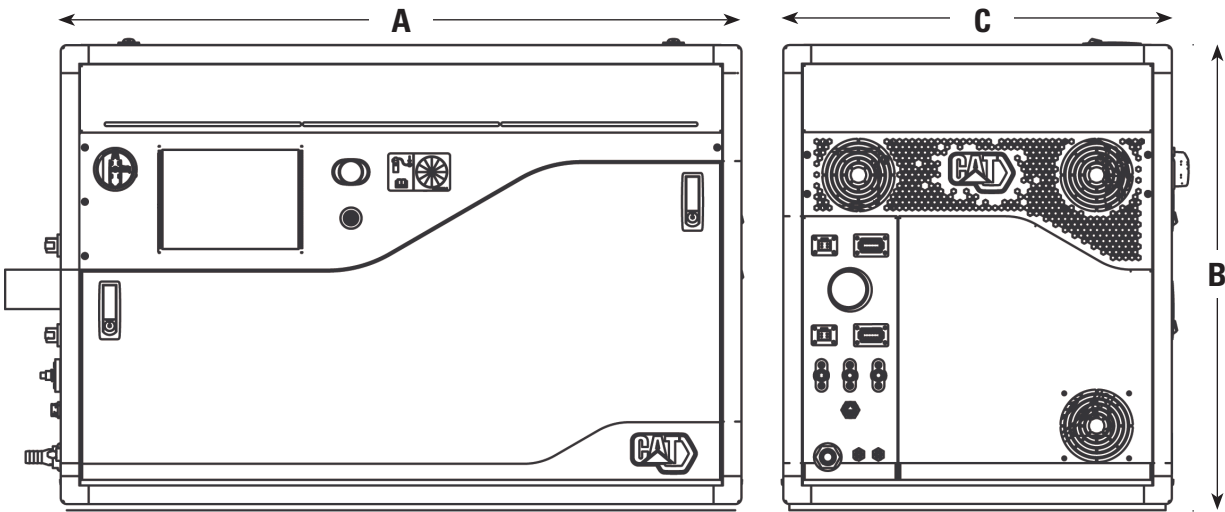
All Cat Marine auxiliary engines and generator sets are rated for prime power for continuous electric service according to ISO 8528-1.

Hours per year: unlimited
Load Factor: < 70%

Overload Capacity: + 10% (Maximum of 1 hour in 12, maximum of 25 hours per year.

Dimensions

All dimensions are approximate.



A	Length	1100 mm	43.3 in	C	Width	628 mm	24.7 in
B	Height	740 mm	29.1 in		Dry Weight	480 kg	1036 lb

Standard and Optional Equipment

STANDARD EQUIPMENT

- Sound Attenuation Enclosure
- Digital control panel
- Self-priming fuel lift pump
- 12 or 24 volt system
- Single sided service points
- Water-cooled exhaust manifold
- Wet exhaust
- Single phase brushless generator
- Anti-vibration mounts

OPTIONAL EQUIPMENT

- Double wall fuel injection lines
- Vessel connection panel
- Siphon break
- AC circuit breaker
- Load share control panel
- Load share junction box

For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at www.cat.com

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