



Cat® C4.4 Diesel Marine Generator Set has three phase ratings of 50 Hertz at 38.0, 51.5, and 69.0 kW with heat exchanger cooling and at 36.0, 49.0, and 65.0 kW with radiator cooling that meet EU CCNR2 emissions standards. The C4.4 also has three phase ratings of 60 Hertz at 44.0, 58.5, 76.0, and 99.0 kW with heat exchanger cooling and of 42.0, 56.0, 72.0, and 95.0 kW with radiator cooling. C4.4 gen set is available in 12 or 24 volt as an open gen set or as an enclosed package. Single-side servicing improves ease of maintenance and lowers overall owner operating costs. The compact package size is ideal for a wide range of commercial and pleasure craft applications. These ratings also have Marine Classification Society approved packages available.

Specifications

Generator Set Specifications	
Minimum Rating	36.0R kW (45 kVA)
Maximum Rating	99.0 kW (123 kVA)
Frequency	50 Hz or 60 Hz
Speed	1500 rpm or 1800 rpm
Emissions/Fuel Strategy	EPA Tier 2 (60 Hz), EU 97/68EC Stage II (50 Hz)

Engine Specifications		
Engine Model	In-line 4, 4-Stroke-Cycle Diesel	
Aspiration	NA, T, TA	
Bore	105 mm	4.13 in
Stroke	127 mm	5 in
Displacement	4.4 l	269 in ³
Governor Type	Electronic	

Generator Set Dimensions		
Length	1750 mm	68.9 in
Width	1215 mm	47.8 in
Height	1000 mm	39.4 in
Weight	805 kg (1775 lb) - 1015 kg (2338 lb)	

Generator Specifications	
Excitation	Separately excited from auxiliary winding to provide 300% short circuit current up to 10 seconds
Pitch	2/3
Number of Leads	12 lead reconnectable
Insulation	Class H

IP Rating	IP23 water protection (IP44 available for certain models, contact your dealer for information)
Voltage Regulator	Solid state voltage regulator with integral voltage adjustment potentiometer

Benefits and Features

Economical

Low owning and operating costs with competitive pricing, longlife construction, and extended service intervals

Easy to install

Plug and play remote instrument panels

Environmentally responsible

Low emission, noise, and vibration levels; 60 Hz meets EPA Tier 2, 50 Hz meets EU 97/68EC Stage II regulations

Safe

Automatic shutdowns for overspeed, high fresh water temperature, low engine oil pressure, and high exhaust temperature (when fitted with a wet exhaust system).

Flexible

Available as an open set or with sound attenuated enclosure, and with radiator-, heat exchanger-, or keel-cooled options

Excellent power quality

Suitable for sophisticated on-board equipment (computers, etc.)

Single source of supply for propulsion and generator sets

Reduced service costs and port time

Standard Equipment

Air Inlet System

- Air cleaner, single element canister type w/ service indicator and rain cap
- Dry insulated turbocharger (DIT and DITA models only)
- Glowplug cold start system

Cooling System

- Heat exchanger cooled packages w/ Cupro-nickel tube bundle (sized for 50 o C ambient air and 32 o C sea water) or Keel cooled packages (sized for 50 o C ambient air)
- De-aeration expansion tank
- Plate-type engine oil cooler
- Gear driven centrifugal jacket water pump
- Gear driven self priming sea water pump
- Caterpillar Extended Life Coolant (heat exchanger cooled packages)

Exhaust System

- Dry insulated turbocharger
- Water-cooled exhaust manifolds

Fuel System

- Primary fuel filter / water separator w/ NPT and BSP connectors (ship loose)
- Secondary fuel filter (LH)
- Fuel priming pump electric
- Energize to run shutoff solenoid

Generator

- 12 lead reconnectable
- 3 phase all models
- Brushless
- Separately excited from auxiliary winding to provide 300% short circuit current up to 10 seconds
- 2/3 pitch
- Broad voltage band
- IP23 water protection
- Solid state voltage regulator w/ integral voltage adjustment potentiometer
- Class H insulation
- Connection poles

Lube System

- Lubricating oil
- Oil filter (LH)
- Dipstick (LH)
- Fumes disposal (closed system)

Mounting System

- Steel base frame with drip pan
- Anti-vibration mounts

Starting/Charging System

- Negative isolated ground electric system

General

- Single side service (LH)
- Keel cooled gensets do not include the keel cooler(s)

Optional Equipment

Space heater kit

- 240V AC, 120V AC

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