

PRODUCT SPECIFICATIONS FOR C175-16

ENGINE SPECIFICATIONS

Minimum Rating	2619 kV·A
Maximum Rating	3325 kV·A
Emissions	Available in IMO Tier II/ EPA Marine Tier 2 configurations
Stroke	8.66 in
Weight	53599 lb
Oil Change Interval	1000 h
Fuel System	Common Rail/EUI™
Engine Control	Dual ADEM™ A4
Generator Set Control	MPD 3 / Cat® Alarm and Protection System
Bore	6.89 in
Displacement	5167 in³
Aspiration	Turbocharged/2-stage aftercooled
Speed	1200/1500/1800 rpm

DIMENSIONS

Height	50 Hz - 2928 (115 in) / 60 Hz - 2916 mm (115 in)
Width	50 Hz - 2413 mm (95 in) / 60 Hz - 2125 mm (84 in)
Length	50 Hz - 6782 mm (267 in) / 60 Hz - 6742 mm (265 in)

CAPACITY FOR LIQUIDS

Cooling System - Engine	92 gal (US)
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C175-16 STANDARD EQUIPMENT

AIR INLET SYSTEM

- Dual turbochargers
- Corrosion-resistant aftercooler core
- Air cleaners — single or dual element

EXHAUST SYSTEM

- Dry exhaust manifolds with thermo-laminated heat shields
- Dual turbochargers with water-cooled bearings and thermo-laminated heat shields
- Vertical exhaust outlet
- Flange and exhaust expanders

COOLING SYSTEM

- Separate-circuit-aftercooler (SCAC) and jacket water (JW) circuit cooling system
- Gear-driven centrifugal pumps, one for each circuit
- SCAC electronic thermostat, outlet-controlled with aftercooler inlet temperature sensing
- JW electronic thermostat, outlet-controlled with outlet temperature sensing
- Engine oil cooler in JW circuit

FUEL SYSTEM

- Cat common rail high-pressure fuel system with electronically controlled unit injectors
- Duplex primary fuel filter with water separator
- Duplex secondary/tertiary fuel filters
- Electric fuel priming pump
- Gear-driven low pressure transfer pump
- Gear-driven high pressure transfer pump
- Double-walled high pressure fuel lines
- Fuel pressure, temperature, and leak detection sensors

LUBRICATION SYSTEM

- Engine-driven gear-type oil pump

Engine-driven, gear-type oil pump

Integral lube oil cooler

Front-mounted oil drain lines and valve

Oil sampling valve

Filler and dipstick

Four-canister simplex oil filter

Prelube pump — electric, air, or custom

Fumes disposal with crankcase breathers

Crankcase explosion relief valves

ENGINE CONTROL AND PROTECTION

Dual ADEM A4 engine control unit (ECU) for redundancy

Software monitors engine parameters and performs alarm, derate, and shutdown functions

Rigid wiring harness

Marine Power Display 3.0 (MPD 3.0)

MOUNTING

Inner-outer base with vibration isolators

GENERATOR

Kato brushless permanent magnet 6P6.6-3200 HR

2-bearing, close-coupled arrangement

60 Hz, 600V, 0.7 PF

UL/CSA listed, IP23

FLYWHEEL AND COUPLING

Flywheel housing, SAE No. 00

Flywheel, SAE No. 00

ABS certified, non-certified, or custom-coupling and coupling mounting

Free-standing or close-coupled generator set arrangements

STARTING SYSTEM

Turbine air starter or

Dual electric starting motors or

Air and electric starting motors (redundant)

GENERAL

Power distribution box — 24V or custom

20A battery charger

Cat yellow paint

Offshore oil field sub-base

Integral spring isolators with limit stop

Lift provisions on base

Oil drain extension

Engine length drip pan with drain

Torsional dampened driveline couplings

C175-16 OPTIONAL EQUIPMENT

AIR INLET SYSTEM

Air cleaner service indicator

COOLING SYSTEM

9 kW, 240V, 60 hz jacket water heater

Custom jacket water heater

FUEL SYSTEM

Four canister duplex oil filter

ENGINE CONTROL AND PROTECTION

Cat Alarm and Protection System

Communication module PL1000T/E

Direct-rack control

Thermocouples

Metal particle detector

SOLAS spray shielding

MOUNTING

Custom I beam base with vibration isolators

Custom I-beam base with vibration isolators

GENERATOR

Custom generator

GENERAL

TVA report

Special tests

Project-specific installation drawings

P&ID-electrical drawings

Spare parts kit

Barring group

Engine lifting group

Custom generators and radiators