



Specifications

Power Rating		
Minimum Rating	933 bkW	1251 BHP
Maximum Rating	1424 bkW	1910 BHP

Engine Specifications		
Aspiration	TA	
Stroke	170 mm	190 in
Configuration	Vee 12 4-Stroke-Cycle Diesel	
Bore	6.7 mm	7.5 in
Displacement	51.8 l	3158 in ³

Dimensions & Weights		
Maximum Height	2073 mm	81.7 in
Minimum Height	2053 mm	80.8 in
Maximum Length	3038 mm	120 in
Minimum Dry Weight	6464 kg	14250 lb
Minimum Length	2890 mm	114 in
Maximum Dry Weight	6960 kg	15345 lb
Maximum Width	1988 mm	78.3 in
Minimum Width	1703 mm	67.1 in

Benefits and Features

Improved fuel economy

Reduced visible and gaseous emissions

Enhanced diagnostic and monitoring capabilities

Increased rated output with no reduction in reliability

Standard Equipment

AIR INLET SYSTEM

- Separate Circuit aftercooler core, corrosion resistant coated (air side)
- Air cleaner, regular duty
- Dual Turbochargers, 152 mm (6 in) OD straight connection

CONTROL SYSTEM

- Caterpillar A-III Electronic Engine Control, LH with Electronic Unit Injector Fuel System
- Rigid Wiring Harness

COOLING SYSTEM

- Oil cooler
- Thermostats and housing, full open temperature 92 C (198 F)
- Jacket water pump, gear driven, centrifugal
- Auxiliary fresh water pump
- Expansion tank
- Auxiliary sea water pump, centrifugal, non-self-priming

EXHAUST SYSTEM

- Dry gas tight exhaust manifolds with heat shields
- Dual Turbochargers with watercooled bearings and heat shields
- Exhaust outlet, vertical, 305 mm (12 in) round flanged outlet on engines @ 1500 or 1800 rpm
- Exhaust outlet, vertical, 203 mm (8 in) round flanged outlet on engines @ 1200 or 1000 rpm

FLYWHEELS & FLYWHEEL HOUSINGS

- Flywheel, SAE No. 00, 183 teeth
- Flywheel housing, SAE No. 00

FUEL SYSTEM

- Fuel filter, RH, with service indicators
- Fuel transfer pump
- Electronically Controlled Unit Injectors

INSTRUMENTATION

- Overspeed shutdown notification light
- Emergency stop notification light
- Graphical Unit (Marine Power Display) for analog or digital display of:

LUBE SYSTEM

- Crankcase breather, Top mounted
- Oil filter, RH
- Oil filler and dipstick, RH
- 500 hours sump oil pan
- Oil pump, gear type

MOUNTING SYSTEM

- Rails, engine mounting, engine length, industrial type, 254 mm (10 in), C-channel

POWER TAKE-OFFS

- Accessory drive
- Lower RH, Lower LH
- Front housing, Two-sided

PROTECTION SYSTEM

- A-III Electronic Monitoring System provides customer programmable engine de-rating strategies to protect against adverse operating conditions
- Emergency stop push button (located in Electronic Instrument Panel) Safety shutoff protection:

GENERAL

- Vibration damper and guard
- Paint, Caterpillar Yellow engine with black rails.
- Lifting eyes
- NOTE: 1. Engines for heat exchanger cooling do NOT include heat exchanger. 2. When used with competitive generator, a TVA is recommended. An alternative vibration damper may be required. 3. Engine is wired for auto start stop

Optional Equipment

CHARGING SYSTEM

- Battery Chargers
- Charging Alternators

CONTROL SYSTEM

- Caterpillar A-III Electronic Engine Control, LH with Electronic Unit Injector Fuel System
- Rigid Wiring Harness (10 amp DC power required to drive Electronic Engine Control Module)

FUEL SYSTEM

- Fuel Cooler
- Fuel priming pumps (LH and RH)
- Flexible fuel lines
- Rigid Fuel Lines
- Primary fuel filter
- LH Fuel Filter
- Duplex fuel filters
- Fuel level switch

GENERATORS AND GENERATOR ATTACHMENTS

- 1500 / 1800 RPM
- 1000 / 1200 RPM
- Low voltage connection
- Generator conversion
- Low voltage extension box

- RFI filter
- Bearing temperature detectors (RTD)
- Manual voltage control
- Air filter

INSTRUMENTATION

- PL1000T Communication Module
- Customer Interface Box
- Thermocouples
- Remote panel display
- Remote cylinder temperature display

LUBE SYSTEM

- Deep Sump Oil Pan
- Oil Pan Drain Valve
- Oil Pan Drain Cover
- Emergency Lube Oil Connections
- Sump pumps
- Oil filters
- Lubricating oil
- Lube system

MOUNTING SYSTEM

- Rails

POWER TAKE-OFFS

- Flywheel Guard
- Flexible Coupling
- Coupling Hub
- Upper Left Hand Front Location
- Upper Left Hand Rear Location
- Upper Right Hand Front Location
- Upper Right Hand Rear Location
- Lower Left Hand Front Location
- Lower Left Hand Rear Location
- Front Housing Accessory Drives
- Upper LH Accessory Drive
- Upper RH Accessory Drive
- Front Power Take-offs
- Crankshaft Pulleys
- Damper Guard Removals

MARINE SOCIETY REQUIREMENTS

- Spray Shielding

PROTECTION SYSTEM

- Air inlet shutoffs
- Switches and contactors
- Explosion relief valve
- Oil Temp Sensor
- Intake Manifold Temp Sensor

SPECIAL APPEARANCE

- Special appearance packages with chrome covers
- Chrome plated relief valves
- Black air cleaners
- Yacht Class Finish

STARTING SYSTEM

- Starting motors or barring device
- Air starting motors options
- Starting aids
- Battery sets - 24 volt - Dry

GENERAL

- Tool set
- Caterpillar datalink wire

SVCE TOOLS/SHIP PROT/FACTORY SUPPORT

- FACTORY COMMISSIONING

PACKING

- Shrink wrap protection
- Shrink wrap protection - generator
- Storage preservation with glycol solution/vapor corrosion inhibitor
- Storage preservation with vapor corrosion inhibitor
- Export packaging
- AID emblem

EXHAUST SYSTEM

- Horizontal Exhaust
- Flexible fittings
- Elbows
- Flanges
- Flange and exhaust expanders
- Mufflers

AIR INLET SYSTEM

- Remote Air Inlet Adapters

COOLING SYSTEM

- Water level switch gauge
- Coolant level sensors
- Connections
- Radiator cooling conversion
- Keel Cooling Conversions
- Heat exchangers
- Auxiliary water pumps
- Sea water pump removal
- Air separator

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