



## Specifications

Power Rating		
Minimum Rating	649 bkW	870 BHP
Maximum Rating	968 bkW	1298 BHP

Engine Specifications		
Aspiration	TA	
Bore	170 mm	6.7 in
Stroke	190 mm	7.5 in
Displacement	34.5 l	2105 in <sup>3</sup>
Configuration	Vee 8 4-Stroke-Cycle Diesel	

Dimensions & Weights		
Maximum Width	1703 mm	67.1 in
Minimum Dry Weight	5115 kg	11276 lb
Maximum Height	1826 mm	71.9 in
Minimum Width	1703 mm	67.1 in
Maximum Dry Weight	5216 kg	11500 lb
Minimum Height	1806 mm	71.1 in
Minimum Length	2310 mm	90.9 in
Maximum Length	2350 mm	92.5 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, 203 mm (8 in) round flanged outlet

### **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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