





Bore – mm (in)	280 (11.0)	
Stroke – mm (in)	300 (11.8)	
Displacement per cylinder – L (in ³)	18.5 (1127)	
Total Displacement – L (in ³)	222 (13,524)	
Compression Ratio	13:1	
Aspiration	TA	
Fuel System EUI		

Image shown may not reflect actual configuration.

Prime 60 Hz ekW (bkW)	Continuous 60 Hz ekW (bkW)	Emissions Performance	
3640 (3800)	3300 (3460)	Marine EPA Tier 4 or IMO Tier 2	

Prime 50 Hz kVA (ekW)	Continuous 50 Hz kVA (ekW)	Emissions Performance	
4850 (3880)	4400 (3520)	IMO Tier 2	

Features

Cat® Diesel Engine

- Designed and optimized for Marine EPA Tier 4 or IMO Tier 2 emissions
- Reliable, rugged, durable design

Alternators

- Superior motor starting capability minimizes need for oversizing generator
- Designed to match performance and output characteristics of Cat diesel engines

Generator Set Package

• Fully prototype tested with certified torsional vibration analysis available

Worldwide Product Support

- Cat dealers have over 1,800 dealer branch stores operating in 200 countries
- Your local Cat dealer provides extensive post-sale support, including maintenance and repair agreements

Cat Generator Set Monitoring System (GSM)

- · Simple user friendly interface and navigation
- Provides protection, monitoring, and control of the diesel generator set
- Redundant shutdown protection
- 10 inch (254 mm) color monitor to display all engine parameters and alarm annunciation
- Annunciation of all engine shutdowns, alarms, and status points
- Start/prelube control switch, fuel control switch and emergency stop buttons
- Speed control switch with automatic changing to ball head control when a governor failure occurs, if ball head control is available
- · Contacts are available for customer use
- Selection of local/remote control of engine
- Selection of idle/rated control of engine
- · Equipped for remote communication
- Four 4-20mA outputs (programmable)
- Relay contact signals to the remote monitoring system (summary shutdown, summary alarm, local operation/remote, engine running, PLC failure, fuel control and idle/rated)

Standard and Optional Equipment

Air Inlet

- Aftercooler, fresh water, corrosion resistant coated (air side)
- Air inlet shutoff
- Air cleaner
- Breather, crankcase, top-mounted
- Turbocharger, engine oil lubricated
- Soot filter
- Air cleaner louver assembly
- Vertical support bracket
- Heavy duty air cleaner
- Air inlet adapter
- Boost control valve

Cooling

- Engine coolant water drains
- Front mounted turbos
- □ Three-bundle oil cooler
- Water temperature regulator
- Jacket water thermostatsHeat exchanger for
- single circuit Heating aids
- Cooling system aids
- □ Auxiliary water pump
- Expansion tank

Exhaust

- 457 mm (18 in) Cat bolt pattern
- Dry, gas tight, exhaust manifold
- Includes adapter, flexible exhaust fitting
- Flexible exhaust fittings
- Weld flange and related hardware

Fuel

- Simplex or Duplex
- Fuel Priming Pump
- Duplex Primary Fuel Strainer
- Fuel System Connections

Generator

- Custom generator
- □ 3 Phase, six leads, WYE
- Class F insulation
- Busbar connections
- U Winding temperature detectors
- Anti-condensation space heaters

Governor

- UG Actuator
- Electronic / actuators
- Digital programmers
- Battery backup / power supply
- 🖵 230 UA
- 🛛 723 Plus
- EGB Actuator

Lube

- Centrifugal oil filters with single shutoff
- Service side engine mounted on cylinder block inspection covers
- Wet oil sump. Includes enginedriven main lubrication pump, installed oil lines, enginedriven oil pump and oil pan
- Oil filler and dipstick
- Valve, oil pressure regulating
 Valves, crankcase explosion
 - relief
- Oil pan drain valve
- Lube ANSI adapter
 - (emergency connection)

Mounting

- Damper, torsional vibration
- Engine and generator mounting
- Isolator
- Spring type vibration isolator
- Vertically restrained
- Non-vertically restrained

Starting / Charging

- Vane type air starter
- Two motors, engine mounted at rear, on left side
- Includes air silencer
- Line group for single point custom connection
- Pressure reducing valve
- Compressed air flex hose
- □ Turbine type air starters
- Redundant air starters

General

- Paint, Caterpillar yellow
- Pumps, gear driven: fuel, oil, jacket water, aftercooler / oil cooler water
- Custom paint colors





Weights and Dimensions



10202 (404.0)	2530 (99.6)	3970 (130.0)	51250 (112,090)
10262 (404.0)	2530 (00 6)	3978 (156.6)	51 230 (112,690)

Note: For reference only. Do not use for installation design. Contact your local Cat dealer for precise weights and dimensions.

Ratings and Definitions

Prime

Output available with varying load for an unlimited time. Average power output is 70% of the prime rated ekW. Typical peak demand is 100% of prime rated ekW with 10% overload capability for emergency use for a maximum of 1 hour in 12. Overload operation cannot exceed 25 hours per year.

Continuous

Output available with non-varying load for an unlimited time. Average power output is 70-100% of the continuous rated ekW. Typical peak demand is 100% of continuous rated ekW for 100% of the operating hours.

Applicable Codes and Standards

AS 1359, CSA, IEC 60034-1, ISO 3046, ISO 8528, NEMA MG 1-22, NEMA MG 1-33, UL508A, 2014/35/EU, 2006/42/EC, 2014/30/EU.

Note: Codes may not be available in all model configurations. Please consult your local Cat dealer for availability.

Engine Rating obtained and presented in accordance with ISO 3046/1 and SAE J1995 JAN90 standard reference conditions of 25°C, 100 kPa, 30% relative humidity and 150m altitude at the stated aftercooler water temperature. Consult altitude curves for applications above maximum rated altitude and/or temperatures.

Ratings are based on SAE J1349 standard conditions. These ratings also apply at ISO 3046 standard conditions. Additional ratings may be available for specific customer requirements, also, for information regarding low sulfur fuel and biodiesel capability, please consult your Cat dealer.

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