CATERPILLAR®

Industrial Engine C6.6 ACERT™

89-205 bkW
119-275 bhp **2200-2500 rpm**

Image shown may not reflect actual engine

CATERPILLAR® ENGINE SPECIFICATIONS

I-6, 4-Stroke-Cycle Diesel

Bore ..... 105.0 mm (4.13 in.)
Stroke ..... 127 mm (5.0 in.)
Displacement..... 6.6 L (402.8 in^3)
Aspiration..... Turbocharged Aftercooled
Compression Ratio..... 16.2:1
Combustion System..... Direct injection
Rotation (from flywheel end).... Counterclockwise
Cooling System ..... Water
Engine Weight, Net Dry (approximate)
with standard equipment.... 506 kg (1,115 lbs.)

FEATURES

Emissions

Meets Tier 3, Stage IIIA emissions requirements. Tier 3 refers to EPA (U.S.) standards. Stage IIIA refers to European standards.

Worldwide Supplier Capability

Caterpillar
– Casts engine blocks and heads
– Machines critical components
– Assembles complete engine

Ownership of these manufacturing processes enables Caterpillar to produce high quality, dependable product.

Factory-designed systems built at Caterpillar ISO 9001:2000 certified facilities.

Testing

Prototype testing on every model:
– proves computer design
– verifies system torsional stability
– tests functionality on every model

Every Caterpillar® engine is dynamometer tested under full load to ensure proper engine performance.

Full Range of Attachments

Wide range of bolt-on system expansion attachments, factory designed and tested.

Unmatched Product Support Offered Through Worldwide Caterpillar Dealer Network

More than 1,800 dealer outlets

Caterpillar factory-trained dealer technicians service every aspect of your industrial engine

99.7% of parts orders filled within 24 hours worldwide

Caterpillar parts and labor warranty

Preventive maintenance agreements available for repair before failure options

Scheduled Oil Sampling program matches your oil sample against Caterpillar set standards to determine:
– internal engine component condition
– presence of unwanted fluids
– presence of combustion by-products

Web Site

For additional information on all your power requirements, visit www.cat-industrial.com.

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STANDARD ENGINE EQUIPMENT

Air Inlet System
- Turbocharged
- Air-to-air aftercooled

Control System
- Electronic governing, PTO speed control
- Programmable ratings
- Cold mode start strategy
- Automatic altitude compensation
- Power compensation for fuel temperature
- Programmable low and high idle and total engine limit
- Electronic diagnostics and fault logging
- Engine monitoring system
- J1939 broadcast (diagnostic and engine status)
- ADEM™ A4 ECU

Cooling System
- Thermostats and housing, vertical outlet
- Jacket water pump, centrifugal
- Water pump, inlet

Exhaust System
- Exhaust manifold, dry
- Optional exhaust outlet

Flywheels and Flywheel Housing
- SAE No. 2/3 flywheel housing

Power Take Off
- SAE A PTO
- SAE B PTO

Fuel System
- Cat® Common Rail Fuel System
- Fuel filter, secondary (2 micron high performance)
- Fuel transfer pump
- Fuel priming pump
- ACERT™ technology

Lube System
- Crankcase breather
- Oil cooler
- Oil filler
- Oil filter
- Oil pan front sump
- Oil dipstick
- Oil pump (gear driven)

General
- Paint, Caterpillar yellow
- Vibration damper
- Lifting eyes

DIMENSIONS

Length	929 mm (36.6 in.)
Width	668 mm (26.3 in.)
Height	797 mm (31.4 in.)

Final dimensions will depend on completed specification.

RATING DEFINITIONS AND CONDITIONS

IND-C (Intermittent) is the horsepower and speed capability of the engine where maximum power and/or speed are cyclic (time at full load not to exceed 50%).

Additional ratings are available for specific customer requirements. Consult your Caterpillar dealer.

Ratings are based on ISO/TR14396, inlet air standard conditions with a total barometric pressure of 100 kPa (29.5 in. Hg), with a vapor pressure of 1 kPa (.295 in. Hg), and 25°C (77°F). Performance is measured using fuel to specification EPA 2D 89.330-96 with a density of 0.845-0.850 kg/L @ 15°C (59°F) and fuel inlet temperature 40°C (104°F).

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