

Product Specifications For C7



Power Rating

Maximum Power	224 kW
Rated Speed	1800-2200 rpm
Minimum Power	168 kW

Emission Standards

Emissions	China Stage II, U.S. EPA Tier 3 Equivalent, EU Stage IIIA Equivalent
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General

Engine Configuration	Inline 6, 4-Stroke-Cycle Diesel
Bore	110 mm
Stroke	127 mm
Displacement	7.2 l
Compression Ratio	16.2:1
Aspiration	Turbocharged Aftercooled (TA)
Combustion System	Direct Injection
Rotation from Flywheel End	Counterclockwise
Aftertreatment	-

Engine Dimensions - Approximate

Length	1053 mm
Width	758 mm

Height

1032 mm

Weight - Net Dry - Basic Operating Engine Without Optional Attachments

588 kg

C7 Standard Equipment

Air Inlet System

Turbocharged
Air-to-Air Aftercooled

Control System

Electronic governing, PTO speed control
Programmable ratings
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 SAE J1939 broadcast and control
ADEM™ A4 Electronic Control Unit (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. 1 flywheel housing

Fuel System

HEUI™ injection
Fuel filter, secondary (2 micron)
ACERT™ Technology
Fuel transfer pump
Fuel priming pump

Lube System

Crankcase breather
Oil cooler

Oil filler
Lube oil filter
Front sump oil pan
Oil dipstick
Gear driven oil pump

General

Vibration damper
Lifting eyes
Cold start capability to -20° C (-4° F)
Paint: Caterpillar yellow, with optional colors available at request