

PRODUCT SPECIFICATIONS FOR C27

POWER RATING

Maximum Power	858 kW
Maximum Torque	5255 Nm @ 1400 rpm
Rated Speed	1800-2100 rpm
Minimum Power	597 kW

EMISSION STANDARDS

Emissions	U.S. EPA Tier 2 Equivalent
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GENERAL

Engine Configuration	V-12, 4-Stroke-Cycle Diesel
Bore	137 mm
Stroke	152 mm
Displacement	27.03 l
Compression Ratio	16.5:1
Aspiration	Turbocharged Aftercooled (TA)
Combustion System	Direct Injection
Rotation from Flywheel End	Counterclockwise
Aftertreatment	-

ENGINE DIMENSIONS - APPROXIMATE

Length	1917 mm
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Width	1464 mm
Height	1319 mm
Weight - Net Dry - Basic Operating Engine Without Optional Attachments	2946 kg

C27 STANDARD EQUIPMENT

AIR INLET SYSTEM

Twin Turbocharged Aftercooled

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

MFI II injection

WATER 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