

Product Specifications For C27



Power Rating

Maximum Power	1150 hp
Maximum Torque	3876 lb-ft @ 1400 rpm
Rated Speed	1800-2100 rpm
Minimum Power	800 hp

Emission Standards

Emissions	U.S. EPA Tier 2 Equivalent
------------------	----------------------------

Engine Dimensions - Approximate

Length	75.5 in
Width	57.6 in
Height	51.9 in
Weight - Net Dry - Basic Operating Engine Without Optional Attachments	6495 lb

General

Engine Configuration	V-12, 4-Stroke-Cycle Diesel
Bore	5.4 in
Stroke	6 in
Displacement	1649.5 in ³
Compression Ratio	16.5:1
Aspiration	Turbocharged Aftercooled (TA)

Combustion System	Direct Injection
Rotation from Flywheel End	Counterclockwise

Aftertreatment

-

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

MEUI 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