

# 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
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## 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 <sup>3</sup>
Compression Ratio	16.5:1
Aspiration	Turbocharged Aftercooled (TA)

**Combustion System**

Direct Injection

**Rotation from Flywheel End**

Counterclockwise

**Aftertreatment**

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## 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