

# Product Specifications For C18



## Power Rating

Maximum Power	597 kW
Maximum Torque	3710 Nm @ 1300 rpm
Rated Speed	1800-2000
Minimum Power	429 kW

## Emission Standards

Emissions	EU Stage V
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## General

Engine Configuration	In-Line 6
Bore	145 mm
Stroke	183 mm
Displacement	18.1 l
Compression Ratio	16.0:1
Aspiration	Turbocharged-Aftercooled (TA) or Series Turbocharged Aftercooled (TTA)
Combustion System	Direct Injection
Rotation from Flywheel End	Counterclockwise
Aftertreatment	DOC or DOC+DPF+SCR

## Engine Dimensions - Approximate

<b>Length</b>	1438 mm
<b>Width</b>	1132 mm
<b>Height</b>	1356 mm
<b>Weight - Net Dry - Basic Operating Engine Without Optional Attachments</b>	1717 kg

## Aftertreatment Dimensions

<b>Length</b>	1153 mm
<b>Width</b>	1112 mm
<b>Height</b>	652 mm
<b>Weight</b>	272 kg

## Aftertreatment Dimensions\*

<b>Diameter</b>	356 mm
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## PETU Dimensions - Tier 4 Final Only

<b>Length</b>	854 mm
<b>Width</b>	287 mm
<b>Height</b>	551 mm
<b>Weight</b>	19.4 kg
<b>Volume Capacity</b>	48.4 l

## C18 Standard Equipment

### Air Inlet System

Turbocharged  
 Air-to-Air Aftercooled  
 Mid-mount turbocharged system with front and rear exhaust configurations (Tier 4 Final, Stage V)

## **Control System**

Electronic control system  
Over-foam wiring harness  
Automatic altitude compensation  
Power compensated for fuel temperature  
Remote fan control  
Configurable software features  
Engine monitoring system SAE J1939 broadcast and control  
Integrated Electronic Control Unit (ECU)

## **Cooling System**

Thermostats and housing, vertical outlet  
Centrifugal water pump  
Guidance on cooling system design available through your dealer to ensure equipment reliability

## **Flywheels And Flywheel Housing**

Choice of SAE No. 0 or SAE No. 1 flywheel housing  
Available SAE No. 1 power take off with optional SAE A, SAE B or SAE C power take off drives. Engine power can also be taken from the front of the engine with optional attachments. (Tier 4 Final, Stage V).

## **Fuel System**

MEUI injection  
Primary fuel filter  
Secondary fuel filters  
Fuel transfer pump  
Electronic fuel priming

## **Lube System**

Open crankcase ventilation system  
Oil cooler  
Oil filler  
Lube oil filter  
Oil dipstick  
Gear driven oil pump  
Choice of front, rear or center sumps  
Open crankcase ventilation system with fumes disposal (optional OCV filter system) (Tier 4 Final, Stage V)

## **Power Take Off (PTO)**

SAE A, SAE B or SAE C power take off (PTO) drives. Engine power can also be taken from the front of the engine on some applications.

## **General**

Paint: Caterpillar yellow, with optional colors available at request

## **U.S. EPA Tier 4 Final, EU Stage V Aftertreatment/ Clean Emissions Control Equipment**

Aftertreatment information applies to ratings from 429-522 bkW (575-700 bhp)

Cat Regeneration System

Clean Emissions Module (CEM), consisting of Diesel Particulate Filter (DPF) and Diesel Oxidation Catalyst (DOC)

Aftertreatment Electronic Control Unit (ECU)

NOx Reduction System (NRS)

Pump Electronic Control Unit (PETU)

Selective Catalytic Reduction (SCR)

Available in 12V or 24V systems