

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

Length	1438 mm
Width	1132 mm
Height	1356 mm

Weight - Net Dry - Basic Operating Engine Without Optional Attachments

1717 kg

Aftertreatment Dimensions

Length 1153 mm

Width 1112 mm

Height 652 mm

Weight 272 kg

Aftertreatment Dimensions*

Diameter 356 mm

PETU Dimensions - Tier 4 Final Only

Length 854 mm

Width 287 mm

Height 551 mm

Weight 19.4 kg

Volume Capacity 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 kW (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