

Product Specifications For C18



Power Rating

Maximum Power	800 HP
Maximum Torque	2736 lb-ft @ 1300 rpm
Rated Speed	1800-2000
Minimum Power	575 HP

Emission Standards

Emissions	EU Stage V
-----------	------------

General

Engine Configuration	In-Line 6
Bore	5.7 in
Stroke	7.2 in
Displacement	1104.5 in ³
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	56.6 in
Width	44.6 in
Height	53.4 in
Weight - Net Dry - Basic Operating Engine Without Optional Attachments	3785 lb

Aftertreatment Dimensions

Length	45.4 in
Width	43.8 in
Height	25.7 in
Weight	600 lb

Aftertreatment Dimensions*

Diameter	14 in
-----------------	-------

PETU Dimensions - Tier 4 Final Only

Length	33.6 in
Width	11.3 in
Height	21.7 in
Weight	42.8 lb
Volume Capacity	51.1 qt (US)

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