

PRODUCT SPECIFICATIONS FOR C18



Maximum Power	470 kW
Rated Speed	1800-2000 rpm
Minimum Power	429 kW
Emissions	U.S. EPA Tier 4 Final, EU Stage V
Engine Configuration	Inline 6, 4-Stroke-Cycle Diesel
Bore	145 mm
Stroke	183 mm
Displacement	18.1 l
Compression Ratio	16.0:1
Aspiration	Turbocharged Aftercooled (TA)
Rotation from Flywheel End	Counterclockwise
Aftertreatment	DOC+DPF+SCR
Length	2532 mm
Width	1241 mm
Height	2006 mm

Weight

2650 kg

Width

1112 mm

Height

652 mm

Weight

268 kg

Diameter

330 mm

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 IV)

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 IV).

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 IV)

POWER TAKE OFF (PTO)

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 INTERIM, EU STAGE IIIB AFTERTREATMENT / CLEAN EMISSIONS CONTROL EQUIPMENT

Cat Regeneration System

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

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

NOx Reduction System (NRS)

Flex pipe connection kit with 90° rotatable elbows to attach to Cat Regeneration System Inlet

Available in 12 volt or 24 volt systems

U.S. EPA TIER 4 FINAL, EU STAGE IV AFTERTREATMENT/ CLEAN EMISSIONS CONTROL EQUIPMENT

Cat Regeneration System

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

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

