

PRODUCT SPECIFICATIONS FOR C18 ACERT TIER 3

RATINGS

Power Range	814-1015 mhp, 803-1001 bhp, 599-747 bkW
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ENGINE

Speed Range	2100-2300 rpm
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Emissions	EPA Tier 3, IMO II, EU Stage IIIA
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Aspiration	TA, TTA
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Bore	145 mm
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Stroke	183 mm
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Displacement	18.1 l
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Rotation from Flywheel End	Counterclockwise
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Configuration	In-line 6, 4-Stroke-Cycle Diesel
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DIMENSIONS & WEIGHTS

Maximum Length	1931 mm
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Minimum Length	1854 mm
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Maximum Dry Weight	1950 kg
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Minimum Height	1198 mm
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Maximum Width	1204 mm
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Minimum Dry Weight	1814 kg
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Maximum Height	1300 mm
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Minimum Width	1134 mm
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C18 ACERT TIER 3 STANDARD EQUIPMENT

AIR INLET SYSTEM

- Separate circuit after-cooled (SCAC)
- Open Crankcase Ventilation (OCV) system
- Turbocharger, jacket water cooled
- Turbocharger inlet, 152 mm (6 in) OD straight connection

COOLING SYSTEM

- Separate Circuit After-Cooling (SCAC) for both HEX and Keel cooled engines
- Engine JW and SCAC Shell & Tube Heat Exchangers for HEX cooled engines
- SCAC pump, gear driven, for HEX cooled engines only
- Jacket water pump, gear driven
- Sea water pump, bronze impeller, gear driven
- SCAC and JW shunt tanks for maintaining proper pump inlet pressures

EXHAUST SYSTEM

- Water-cooled exhaust manifold & turbocharger
- 152 mm (6 in) round flanged outlet

FLYWHEELS & FLYWHEEL HOUSINGS

- Flywheel Housing, SAE No. 0
- Flywheel, 18 inch, 136 teeth
- SAE standard rotation
- SAE No. 1, Flywheel: 14 inch, 113 teeth

FUEL SYSTEM

- Front service simplex fuel system
- Fuel transfer pump, gear driven
- Manual fuel priming pump
- Hybrid fuel line design

LUBE SYSTEM

- Front service simplex oil system

Center sump oil pan:

Front and top service oil filler locations

Front service dipstick

Oil pump, gear driven

POWER TAKE-OFFS

Poly-V groove for alternator drive

NOTE: There are no standard power take-offs available

GENERAL

Front damper guard

Front service engine

Common electrical bonding point

Engine does not ship with zinc components

Engine is certified to D2/E2 emissions cycles

CERTIFIED TO 2013 EPA TIER 3 AND IMO II MARINE COMMERCIAL PROPULSION (E3 CYCLE) EMISSION STANDARDS

CERTIFIED TO EU STAGE IIIA AND CCNR STAGE II (E3 CYCLE) EMISSIONS STANDARDS.

NOTE: Ratings listed below can also be used in Recreational / Pleasure Craft applications.

CONTROL SYSTEM

Programmable low idle

WOSR (Wide Operating Speed Range) available for EPA Tier 3 - B and C Ratings

Adjustable High Idle (TEL) - EPA Tier 3 WOSR Ratings Only

Electronic diagnostics and fault logging

Engine and transmission monitoring (speed, temperature, pressure)

Electronic fuel/air ratio control

Engine Protection Mode for extended ambient conditions - EPA Tier 3 Ratings Only

Torque Limiting functionality for WOSR ratings only

70-pin customer connector

Three types of throttle inputs (primary/ secondary PWM, 0-5V, 4-20mA +/-

C18 ACERT TIER 3 OPTIONAL EQUIPMENT

EXHAUST SYSTEM

Dry Elbows

Water-Cooled Elbows

Flexible Fitting

Flange

Muffler

Muffler Spark Arresting

CHARGING SYSTEM

Battery Chargers

Charging Alternators

Alternator Mounting Group

Ammeter

CONTROL SYSTEM

MECP I

CATERPILLAR ALARM AND PROTECTION

COOLING SYSTEM

AUX EXPANSION TANK FLANGE KIT

FUEL SYSTEM

Duplex Fuel Filters

Flexible Fuel Lines

Fuel Cooler

Primary Fuel Filters

INSTRUMENTATION

Instrument Panels

OEM Wiring Harness

Engine to Engine Harness

Gauges

Transmission Sensors

Oil Level Sensor

LUBE SYSTEM

Duplex Oil Filters

Transmission Oil Cooler

Sump Pump

MOUNTING SYSTEM

Vibration Isolators

Front Support

Rear Support

POWER TAKE-OFFS

NOTE: PTO OPTIONS REQUIRE TORSIONAL VIBRATION ANALYSIS

Crankshaft Pulleys

Front Stub Shaft

Hydraulic Pump Drive Adapter

Front Enclosed Clutch

PROTECTION SYSTEM

Marine Classification Society and SOLAS

Marine Classification Society and Fire Resistance

STARTING SYSTEM

STARTING SYSTEM Electric Starting Motors - Single 24 Volt

Air Starting Motor

Air Start Accessories

Starting Aids - JW Heaters

Battery Sets - 24 Volt - Dry