

# Product Specifications For C18



## Ratings

<b>Power Range</b>	814-1015 mhp, 803-1001 bhp, 599-747 bkW
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## Engine

<b>Speed Range</b>	2100-2300 rpm
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<b>Emissions</b>	EPA Tier 3, IMO II, EU Stage IIIA
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<b>Aspiration</b>	TA, TTA
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<b>Bore</b>	5.7 in
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<b>Stroke</b>	7.2 in
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<b>Displacement</b>	1106 in <sup>3</sup>
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<b>Rotation from Flywheel End</b>	Counterclockwise
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<b>Configuration</b>	In-line 6, 4-Stroke-Cycle Diesel
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## Dimensions & Weights

<b>Maximum Length</b>	76 in
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<b>Minimum Length</b>	73 in
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<b>Maximum Dry Weight</b>	4299 lb
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<b>Minimum Height</b>	47.2 in
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<b>Maximum Width</b>	47.4 in
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<b>Minimum Dry Weight</b>	4000 lb
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<b>Maximum Height</b>	51.2 in
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## C18 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 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