

# PRODUCT SPECIFICATIONS FOR C18 ACERT IMO II

<b>Power Range</b>	454-715 bhp (339-533 kW)
<b>Speed Range</b>	1800-2100 rpm
<b>Emissions</b>	IMO II, EU IIIA
<b>Aspiration</b>	TA, TTA
<b>Bore</b>	5.7 in
<b>Stroke</b>	7.2 in
<b>Displacement</b>	1106 in <sup>3</sup>
<b>Rotation from Flywheel End</b>	Counterclockwise
<b>Configuration</b>	In-line 6, 4-Stroke-Cycle Diesel
<b>Minimum Dry Weight</b>	4000 lb
<b>Minimum Length</b>	73 in
<b>Maximum Length</b>	76 in
<b>Minimum Height</b>	47.2 in
<b>Maximum Height</b>	51.2 in
<b>Minimum Width</b>	44.6 in
<b>Maximum Width</b>	47.4 in

**Maximum Dry Weight**

4299 lb

## **C18 ACERT IMO II 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: Deep; 500 hour oil change interval, Shallow; 250 hour oil change interval

Front and top service oil filler locations

Front service dipstick

Oil pump, gear driven

## **MOUNTING SYSTEM**

Front support - adjustable

## **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 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 IMO II OPTIONAL EQUIPMENT**

## **EXHAUST SYSTEM**

Dry Elbows  
Water-Cooled Elbows  
Flexible Fitting  
Flange  
Muffler  
Muffler Spark Arresting

## **AIR INLET SYSTEM**

Air Inlet Adapter

## **CHARGING SYSTEM**

Battery Chargers  
Charging Alternators

Alternator Mounting Group

Ammeter

## **CONTROL SYSTEM**

MECP I

Caterpillar Alarm System 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: Marine Power Display, Color Marine Power Display, Color MPD Dual Display Harness,  
MPD Wiring Connection Kit  
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**

Electric Starting Motors - Single 24 Volt

Air Starting Motor

Air Start Accessories

Starting Aids - JW Heaters

Battery Sets - 24 Volt - Dry

