

## C Series Marine 480 hp (343kW)

# 480C-E



### ENGINE SPECIFICATIONS

Configuration	In-line 6-cylinder, 4-cycle diesel
Bore & Stroke	114 mm x 135 mm (4.49 in x 5.32 in)
Displacement	8.3 L (504.5 cu in)
Rotation	Counterclockwise facing flywheel
Aspiration	Turbocharged, Aftercooled

### POWER RATINGS

Rating	High Output* (SWAC)
Engine ID	6CTA8.3-M
Rated RPM	2600
kW (HP)	343 (480)
Max Torque N-m (ft-lb)	1634 1205
RPM	1600

\*Ratings are IMO emissions certified.  
SWAC - Seawater Aftercooled

### AVAILABLE ACCESSORIES

**C Cruise Package:** Includes backup throttle, digital display, engine synchronization, cruise control, idle speed control and slow idle.

**Air Cleaner:** Light or heavy duty.

**Auxiliary Pump**

**Flywheel Housing:** #3

**Walker Air Sep:** Closed crankcase ventilation system

**Accessory Drive Pulley:** Belt or gear driven

### FEATURES AND BENEFITS

#### Engine Design:

Compact size (based off the proven 450C Engine) for ease of installation with easy access for routine maintenance. Four stroke combustion cycle for quiet and fuel efficient operation. Alloy cast iron cylinder block with removable wet liners for longer life and serviceability. One piece cross flow cylinder head for small package size and maximum stiffness with replaceable valve guides and seat inserts. The engine also includes a waste gated turbocharger for faster/smooth performance.

#### Cooling System:

Low profile heat exchanger configuration. Spin-on Fleetguard coolant treatment filter.

#### Fuel System:

Electronically governed Bosch inline fuel pump with high injection pressure for improved performance.

#### Lubrication System:

17L (4.5 g) marine grade, cast aluminum oil pan. Spin-on Fleetguard lube oil filters. Handed Filter and dipstick locations for ease of maintenance.

#### Electrical System:

12-volt and 24-volt systems available. Marine grade wiring harness and instrument panels.

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## ENGINE DIMENSIONS

Length		Width		Height		Weight (Dry)	
mm	in	mm	in	mm	in	kg	lbs
1141	44.9	945	37.2	950	37.4	858	1891

## PERFORMANCE (PROP CURVE)

Rating: High Output 480 hp\*

<b>rpm</b>	2600	2400	2000	1400
<b>kW</b>	343	276	169	64
<b>g/kW-hr</b>	238	219	211	222
<b>L/hr</b>	97.3	71.9	42.4	17.0
<b>HP</b>	480	371	227	86
<b>lb/hp-hr</b>	.391	.359	.346	.364
<b>gal/hr</b>	25.7	19.0	11.2	4.5

\*Ratings are IMO emissions compliant.

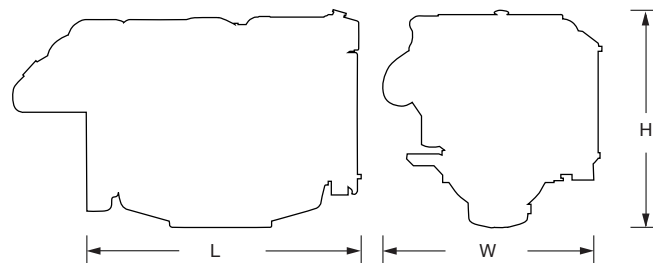
Data represents performance along a 2.7 fixed pitch propeller curve. Fuel consumption has a tolerance of +5% and is based on fuel of 35° API gravity at 16 °C (60 °F) having an LHV of 42,780 KJ/KG (18,390 BTU/lb) when used at 29 °C (85 °F) and weighing 838.9 g/liter (7.001 lb/US gal). Cummins has always been a pioneer in product improvement. Thus specifications may change without notice. Consult your local Cummins professional for further information.

### Rating Definitions

Ratings are based on ISO 8665 conditions of 100kPa (29.612 in Hg) and 25°C (77°F) and 30% relative humidity. Propeller shaft power represents the net power available after typical gear losses and is 97% of rated power. Power rated in accordance with IMCI procedures.

### High Output

Intended for use in variable load applications where full power is limited to one hour out of every eight hours of operation. This rating is for pleasure/non-revenue generating applications that operate less than 300 hours per year.



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