	<b>CUMMINS INC.</b> Charleston, SC 29405 Marine Performance Curves	Basic Engine Model: <b>K50-DM</b>	Curve Number: <b>DM-6886</b>	
		Engine Configuration: <b>D283036MX02</b>	CPL Code: <b>3729</b>	Date: <b>14-Jun-12</b>

Displacement: **50 liter**      **[3079 in³]**  
Bore: **159 mm**      **[6.26 in]**  
Stroke: **159 mm**      **[6.25 in]**  
Fuel System: **PT**  
Cylinders: **16**

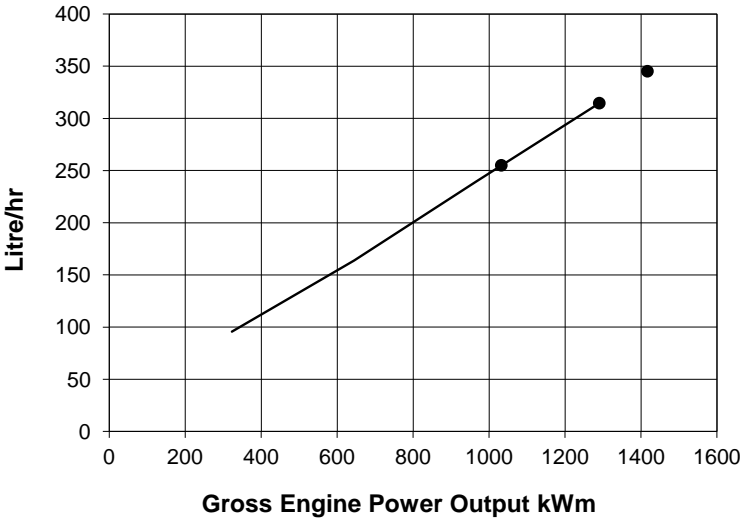
kW [hp] @ rpm  
**1291[1730]@1800**  
Aspiration: **Turbocharged/Aftercooled**  
Exhaust Type: **Dry**

CERTIFIED: This marine diesel engine complies with or is certified to the:  
IMO Tier II (Two) NOx requirements of International Maritime Organization (IMO), MARPOL 73/78 Annex VI, Regulation 13

Engine Speed	Overload Capacity		Prime Power		Continuous Powerk	
RPM	kWm	BHP	Wm	BHP	kWm	BHP1
1800	1417	1900	1291	1730	1032	1384

### Engine Performance Data @ 1800 rpm

OUTPUT POWER			FUEL CONSUMPTION			
%	kWm	BHP	kg/kWh	Lb/ BHP-h	Liter/ hour1	U.S. Gal/ hour
<b>0% OVERLOAD CAPACITY</b>						
110%	1417	1900	0.207	0.341	345.2	91.2
<b>PRIME POWER</b>						
100%	1291	1730	0.207	0.341	314.6	83.1
75%	968	1298	0.211	0.347	239.9	63.4
50%	645	865	0.216	0.356	164.0	43.3
25%	323	433	0.252	0.414	95.5	25.2
10%	129	173	0.370	0.609	56.1	14.8
<b>CONTINUOUS POWER</b>						
80%	1032	1384	0.210	0.346	255.0	67.4



**Rating Conditions:** Ratings are in accordance with ISO 15550 and ISO 8528-5 reference conditions; air pressure at 100 kPa (29.61 in Hg), air temperature 25°C (77°F), and 30% relative humidity. The fuel consumption data is based on No. 2 diesel fuel weight at 0.85 kg/liter (7.001 lb/U.S. gal).

Power output curves are based on the engine operating with fuel system, water pump, and lubricating oil pump; not included are battery charging alternator, fan, optional equipment, and driven components.

Values from engine control modules and displayed on instrument panels are not absolute. Tolerance varies, but is generally less than +/-5% when operating within 30% of rated power.

Unless otherwise specified, tolerance on all values is +/-5%.

**Prime Power Rating** is applicable for supplying continual electrical power at varied load. The following are the Prime Rating parameters:

- \* Prime Power is available for an unlimited number of hours per year in a variable load application. Variable load should not exceed a 70% average of the Prime Power rating during any operating period of 250 hours.
- \* The total operating time at 100% Prime Power shall not exceed 500 hours per year.
- \* There is a 10% overload capability for a period of 1 hour within a 12 hour period of operation. Total operating time at 10% overload shall not exceed 25 hours per year.

TECHNICAL DATA DEPT.

  
**CHIEF ENGINEER**