	<b>CHONGQING CUMMINS ENGINE CO.,Ltd.</b> CHONGQING, P.R.CHINA, 400031  Marine Performance Curves	Basic Engine Model:	Curve Number:	
		<b>K38-DM</b>	<b>FR6706</b>	
		Engine Configuration:	CPL Code:	Date:
		<b>D233038MX02</b>	<b>5482</b>	<b>15-Aug-19</b>

Displacement: **37.7 liter**      **[2300 in³]**  
 Bore: **159 mm**      **[6.25 in]**  
 Stroke: **159 mm**      **[6.25 in]**  
 Fuel System: **Direct Injection Cummins PT**  
 Cylinders: **12**

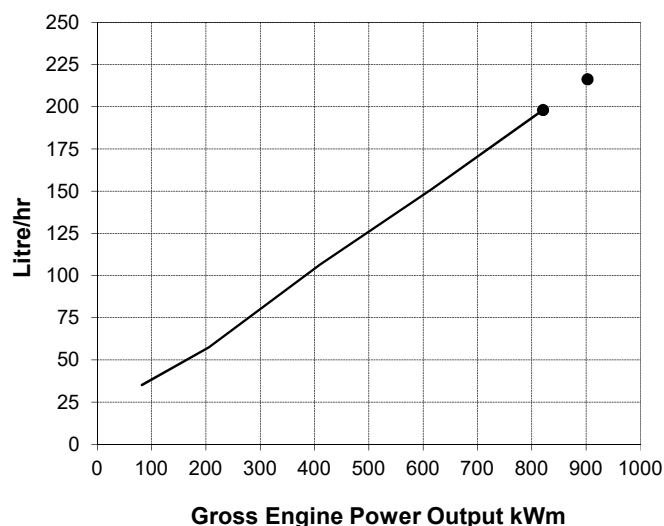
Advertised Power: **821 [1100]@1800** kW [hp] @ rpm  
 Aspiration: **Turbocharged / LTA**  
 Exhaust Type: **Dry**

CERTIFIED: This marine diesel engine complies with or is certified to the:  
 Limits and measurement methods for exhaust pollutants from marine engines(CHINA I )

Engine Speed	Overload Capacity		Prime Power		Continuous Power	
RPM	kWm	BHP	kWm	BHP	kWm	BHP
1800	903	1210	821	1100	656	880

### Engine Performance Data @ 1800 rpm

OUTPUT POWER			FUEL CONSUMPTION			
%	kWm	BHP	kg/kWh	Lb/ BHP-h	Liter/ hour	U.S. Gal/ hour
<b>10% OVERLOAD CAPACITY</b>						
110%	903	1210	0.204	0.335	216.2	57.13
<b>PRIME POWER</b>						
100%	821	1100	0.205	0.338	198.1	52.33
75%	615	825	0.209	0.343	151.0	39.90
50%	410	550	0.221	0.363	106.5	28.14
25%	205	275	0.237	0.391	57.3	15.14
10%	82	110	0.364	0.599	35.1	9.28
<b>CONTINUOUS POWER</b>						
80%	656	880	0.207	0.341	160.2	42.32



**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 (7.1 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.

Unless otherwise specified, all data is at rated power conditions and can vary  $\pm 5\%$ .

**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