	CHONGQING CUMMINS ENGINE CO.,Ltd. CHONGQING, P.R.CHINA, 400031 Marine Performance Curves	Basic Engine Model:	Curve Number:	
		K50-DM	FR6105	
		Engine Configuration:	CPL Code:	Date:
		D283036MX02	5482	15-Aug-19

Displacement: **50.3 liter** **[3068 in³]**
 Bore: **159 mm** **[6.25 in]**
 Stroke: **159 mm** **[6.25 in]**
 Fuel System: **Direct Injection Cummins PT**
 Cylinders: **16**

kW [hp] @ rpm
 Advertised Power: **1,097[1470]@1500**

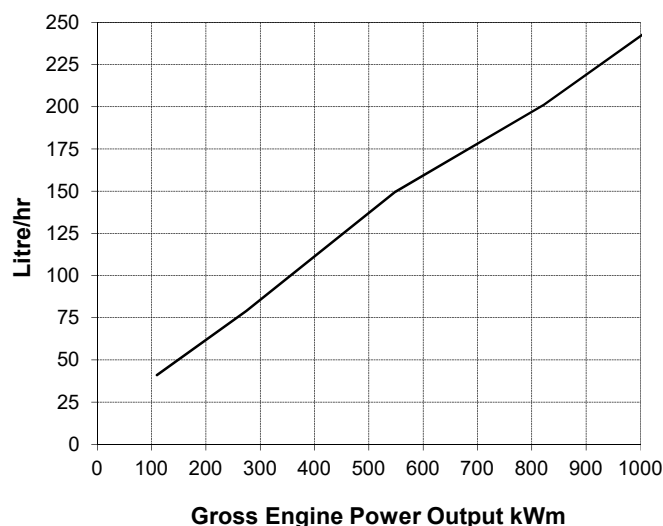
 Aspiration: **Turbocharged / LTA**
 Exhaust Type: **Dry**

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
1500	1206	1617	1097	1470	877	1176

Engine Performance Data @ 1500 rpm

OUTPUT POWER			FUEL CONSUMPTION			
%	kWm	BHP	kg/kWh	Lb/ BHP-h	Liter/ hour	U.S. Gal/ hour
10% OVERLOAD CAPACITY						
110%	1206	1617	0.166	0.273	235.4	62.20
PRIME POWER						
100%	1097	1470	0.205	0.337	264.1	69.75
75%	822	1103	0.208	0.342	201.1	53.13
50%	548	735	0.232	0.382	149.5	39.51
25%	274	368	0.245	0.404	79.1	20.89
10%	110	147	0.318	0.523	41.0	10.84
CONTINUOUS POWER						
80%	877	1176	0.209	0.344	215.7	56.97



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