CUMMINS INC. Charleston, SC 29405 Marine Performance Curves	Basic Engine Model: **K38-DM**	Curve Number: **DM-6883**		
	Engine Configuration: **D233038MX02**	CPL Code: **3764**	Date: **12-Oct-11**	

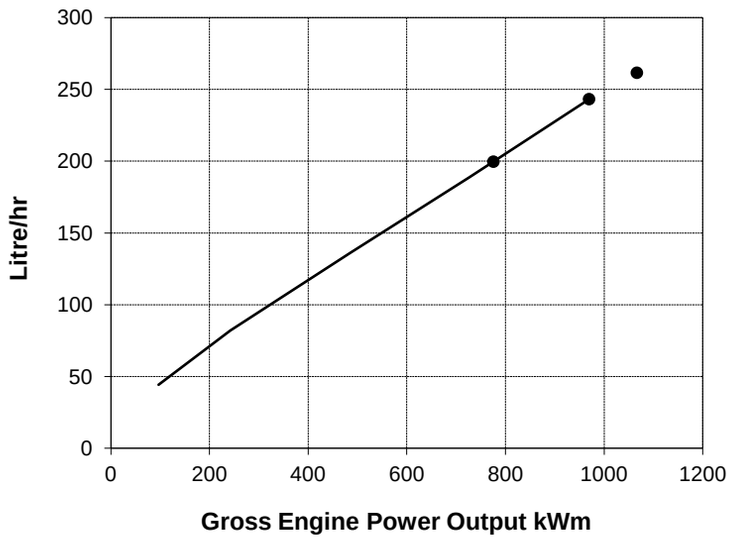
Displacement:	**38 liter**	**[2309 in³]**		kW [hp] @ rpm
Bore:	**159 mm**	**[6.26 in]**	Advertised Power:	**970[1300]@1800**
Stroke:	**159 mm**	**[6.25 in]**	Aspiration:	**Turbocharged/Aftercooled**
Fuel System:	**Direct Injection Cummins STC**		Exhaust Type:	**Dry**
Cylinders:	**12**			

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 Power	
RPM	kWm	BHP	kWm	BHP	kWm	BHP
1800	1066	1430	970	1300	776	1040

Engine Performance Data @ 1800 rpm

OUTPUT POWER			FUEL CONSUMPTION			
%	kWm	BHP	kg/kWh	Lb/ BHP-h	Liter/ hour	U.S. Gal/ hour
10% OVERLOAD CAPACITY						
110%	1066	1430	0.208	0.343	261.6	69.1
PRIME POWER						
100%	970	1300	0.213	0.351	243.2	64.2
75%	727	975	0.221	0.363	188.9	49.9
50%	485	650	0.239	0.393	136.1	35.9
25%	242	325	0.287	0.473	81.9	21.6
10%	97	130	0.388	0.638	44.2	11.7
CONTINUOUS POWER						
80%	776	1040	0.219	0.360	199.6	52.7



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 (7.0011 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, 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**