



TONTEK POWER
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Engine Model
NT855-M

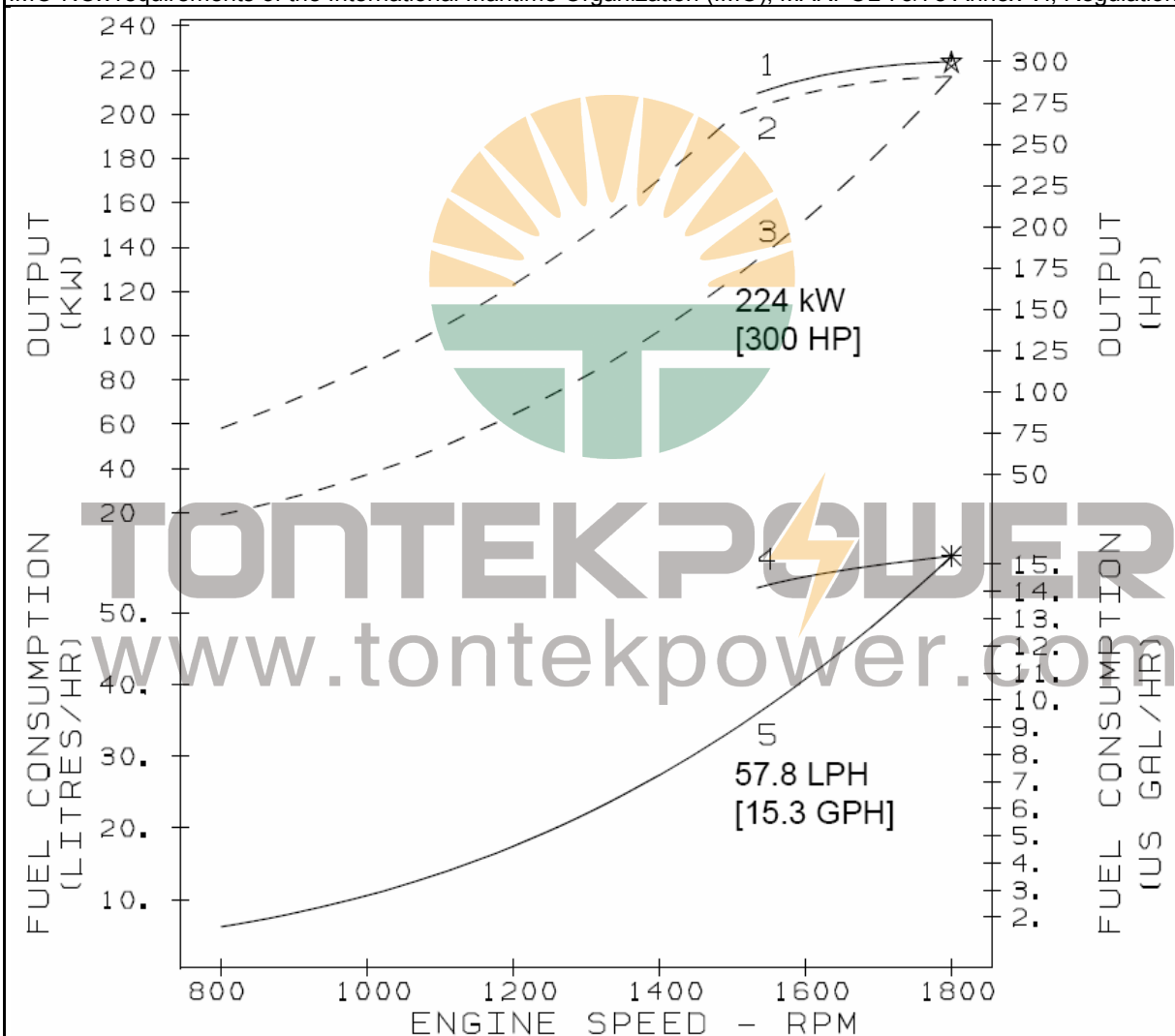
Advertised Power: **224kW [300HP] @1800 r/min**

Displacement: **14L [855 in.³]**
Bore: **140mm [5.50 in.]**
Stroke: **152mm [6.00 in.]**
Fuel System: **PT**
Cylinders: **6**

Aspiration: **Turbocharged**
Rating Type: **Continuous**

CERTIFIED: This marine diesel engine complies with or is certified to the:

IMO-NOx requirements of the International Maritime Organization (IMO), MARPOL 73/78 Annex VI, Regulation 13



Rating Conditions: Ratings are based upon ISO 8665 and SAE J1228 reference conditions; air pressure of 100kPa [29.612 in.Hg] air temperature 25°C [77°F] and 30% relative humidity. Power is rated in accordance with IMCI procedures.

Fuel consumption is based on fuel of 35° API gravity at 16°C (60°F) having LHV of 42,780 kJ/kg (18,390 Btu/lb) and weighing 838.9 g/liter (7.001 lb/U.S.gal).

Propeller Shaft Power represents the net power available after typical reverse/reduction gear losses and is 97% of rated power.

1. Brake power
2. Shaft power with Reverse / Reduction Gear
3. Typical Propeller Power Curve (3.0 exponent)

4. Fuel Consumption for Brake and Shaft power.
5. Fuel Consumption for Typical Propeller.

Continuous Rating: This power rating is intended for continuous use in applications requiring uninterrupted service at full power. This rating is an ISO3046 Standard Power Rating.



General Engine Data

Engine Model.....	NT855-M
Rating Type	Continuous
Rated Engine Power..... hp [kW]	300 [224]
Rated Engine Speed..... rpm	1800
Peak Engine Torque @ 1500 rpm..... lb. · ft. [N · m]	963 [1306]
Brake Mean Effective Pressure..... psi [kPa]	155 [1067]
Minimum Idle Speed Setting..... rpm	575-650
Normal Idle Speed Variation..... ±rpm	25
High Idle Speed Range Minimum..... rpm	1962
Maximum..... rpm	2106
Aspiration	Turbocharged
Compression Ratio	14.5:1
Piston Speed..... ft/min [m/sec]	1791 [9.1]
Weight (Dry) - Engine Only - Average..... lb. [kg]	2771 [1258]
Weight (Dry) - Engine With HeatexchangerSystem - Average..... lb. [kg]	3051 [1385]
Installation Diagram No.....	4061292

Fuel System¹

Fuel Consumption at Rated Speed..... gal/hr [l/hr]	15 [58]
Approximate Fuel Flow to Pump..... gal/hr [l/hr]	46 [174]
Maximum Allowable Fuel Supply to Pump Temperature..... ° F [° C]	160 [71]
Approximate Fuel Return to Tank Temperature..... ° F [° C]	N.A.
Maximum Heat Rejection to Drain Fuel..... BTU/min [kW]	N.A.
Fuel Pressure - Pump Out / Rail Mechanical Gauge..... psi [kPa]	123 [847]

Air System¹

Intake Manifold Pressure..... in. Hg [kPa]	30 [102]
Intake Air Flow..... cfm [l/sec]	593 [280]
Heat Rejection to Ambient..... BTU/min [kW]	1651 [29]

Exhaust System¹

Exhaust Gas Flow..... cfm [l/sec]	1377 [650]
Exhaust Gas Temperature (Turbine Out)..... ° F [° C]	810 [432]
Exhaust Gas Temperature (Manifold)..... ° F [° C]	1080 [582]

Cooling System¹

Sea Water Pump Specifications.....	MAB 0.08.17-07/16/2001
Pressure Cap Rating (With Heat Exchanger Option)..... psi [kPa]	7 [50]

Engines without Low Temperature Aftercooler (LTA)

Jacket Water Aftercooled Engine (JWAC)

Coolant Flow to Engine Heat Exchanger..... gal/min [l/min]	62 [234]
Standard Thermostat Operating Range (Start to Open)..... ° F [° C]	180 [82]
Standard Thermostat Operating Range (Full Open)..... ° F [° C]	201 [94]
Heat Rejection to Engine Coolant ³ BTU/min [kW]	10872 [191]

TBD = To Be Determined

N/A = Not Applicable

N.A. = Not Available

1. All Data at Rated Conditions.
2. Consult Installation Direction Booklet for Limitations.
3. Heat rejection to coolant values are based on 50% water/50% ethylene glycol mix.
4. Consult option notes for flow specifications of optional Cummins seawater pumps (if applicable).

Tontek Power Limited

ADD:NO.19,Hailing Industrial Area,Taizhou,Jiangsu,China

Tel:+86-523-81556166 Fax:+86-523-81558066

www.tontekpower.com

E-mail:info@tontekpower.com