

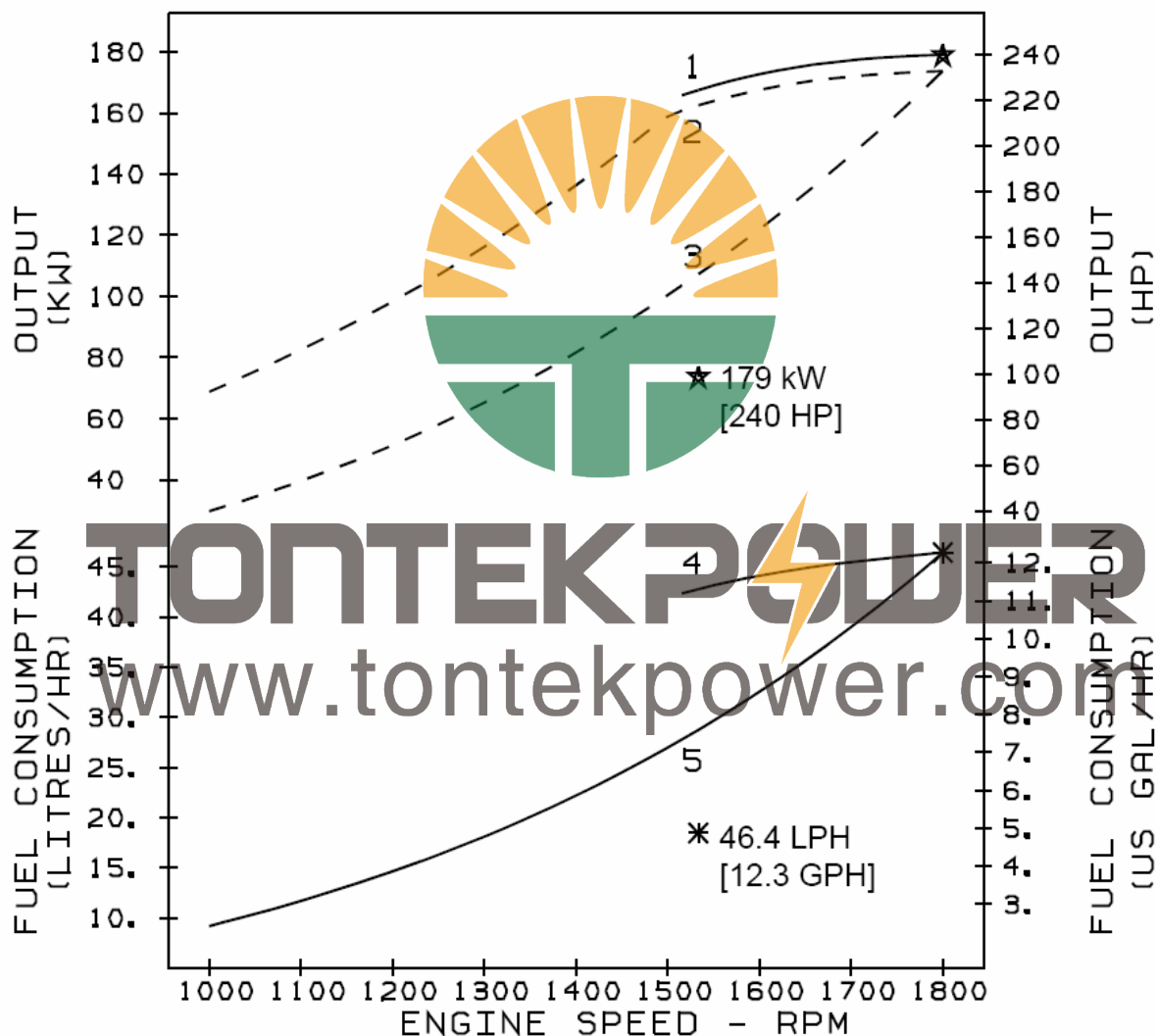


TONTEK POWER
www.tontekpower.com

Engine Model
NT855-M

Displacement:	14L	[855 in.³]	Advertised Power:	179kW [240HP] @1800 r/min
Bore:	140mm	[5.50 in.]		
Stroke:	152mm	[6.00in.]	Aspiration:	Turbocharged
Fuel System:	PT		Rating Type:	Continuous
Cylinders:	6			

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 | 4. Fuel Consumption for Brake and Shaft power. |
| 2. Shaft power with Reverse / Reduction Gear | 5. Fuel Consumption for Typical Propeller. |
| 3. Typical Propeller Power Curve (3.0 exponent) | |

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]	240 [179]
Rated Engine Speed.....rpm	1800
Peak Engine Torque @ 1300 rpm.....lb.·ft. [N·m]	770 [1044]
Brake Mean Effective Pressure.....psi [kPa]	123 [852]
Minimum Idle Speed Setting..... rpm	575-675
Normal Idle Speed Variation.....±rpm	50
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]	12 [47]
Approximate Fuel Flow to Pump.....gal/hr [l/hr]	37 [141]
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]	84 [579]

Air System¹

Intake Manifold Pressure.....in. Hg [kPa]	20 [68]
Intake Air Flow.....cfm [l/sce]	572 [270]
Heat Rejection to Ambient.....BTU/min [kW]	1309 [23]

Exhaust System¹

Exhaust Gas Flow.....cfm [l/sec]	1250 [590]
Exhaust Gas Temperature (Turbine Out)..... ° F [° C]	720 [382]
Exhaust Gas Temperature (Manifold)..... ° F [° C]	990 [532]

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]	84 [317]
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]	8709 [153]

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).

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