YANMAR

MARINE DIESEL ENGINES

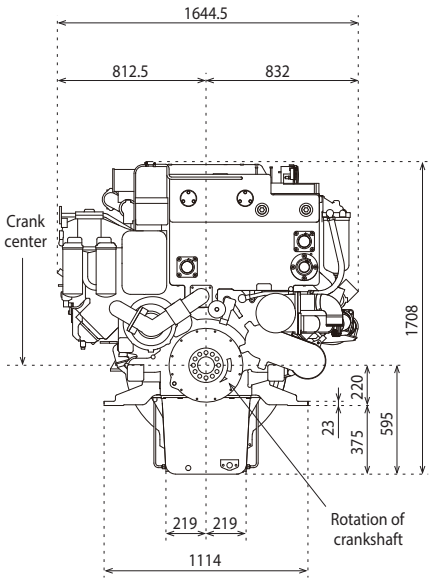
12AYM-WGT Series

REBORN POWER AND QUALITY | LONG STROKE | IMO Tier II Compliant | Mechanical Engine Control

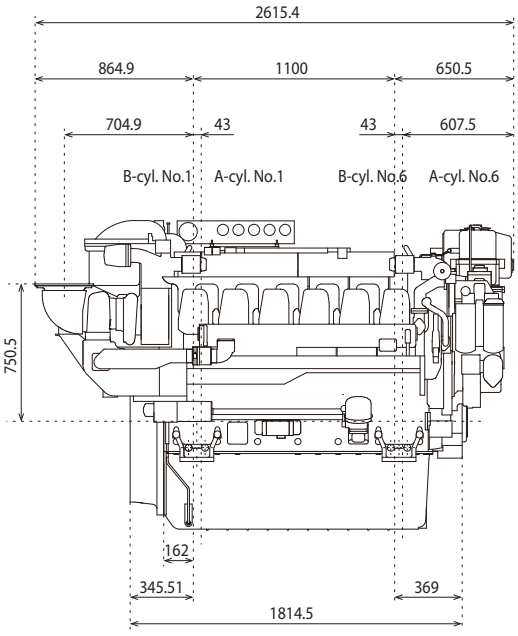
Configuration	V-type, vertical, water-cooled, 4-cycle diesel engine
Maximum output at crankshaft	L: 1340 kW@1940 rpm [1822 mhp@1940 rpm]
Displacement	40.76 ltr
Bore x stroke	155 mm × 180 mm
Cylinders	12 V-type
Combustion system	Direct injection
Starting system	Electric starting motor [DC 24V - 6.5 kW) × 2 or air motor × 2
Flywheel housing size	SAE #00, 21 inch
Turbocharging system	Exhaust gas turbocharger [with air cooler] TD13M1
Cooling system	Constant high temperature cooling system
Cooling fresh water capacity	211 ltr [jacket]
Lubrication system	Wet sump system, forced lubrication by gear pump
Lubricating oil capacity	Max.: 170 ltr Min.: 110 ltr [sump tank] [in engine piping line: 25]
Lubricating oil grade	SAE40 or SAE15W-40
Direction of rotation [crankshaft]	Counterclockwise, when viewed from the flywheel side
Dry weight without gear	4870 kg [without Fresh water cooler]
Environmental	IMO Tier II
Fuel consumption [at rated output]	L: 217 + 5% gr/kW hr [without marine gear]

DIMENSIONS [UNIT: MM]

Front view, engine only

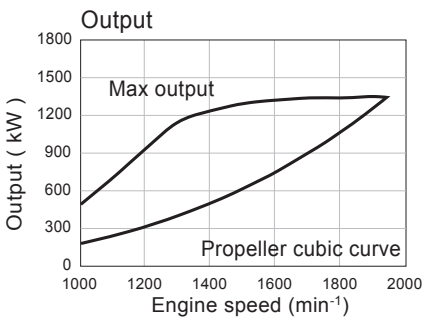


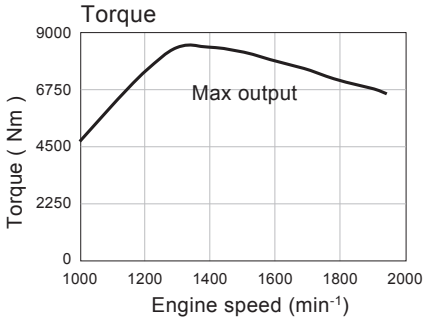
Right side view, engine only

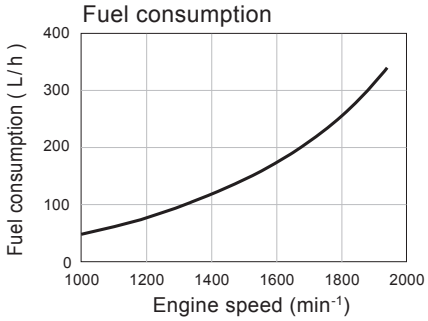


PERFORMANCE CURVES

L-rating







Rating definitions: hp= 0.7355 kW Ratings are based on conditions of 100 kPa, 30% relative humidity at 25°C.
L= For applications where use of rated power is less than 2 hours continuous out of every 5 hours and operation is less than 2000 hours per year. When combined with a correctly matched propeller which allows the engine rated speed to be achieved in a fully loaded vessel state, the reduced-power operation can be at or below 50 min-1 of the rated speed.
Fuel rates: Specific gravity 0.835 g/cc, low calorific value 42700 kj/kg [10200 kcal/kg], Cetane No. 45.

NOTE: All data subject to change without notice. Text and illustrations are not binding.

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