

MARINE DIESEL ENGINES



6AYM-STE 485kW(659mhp)

To even further satisfy the expectation of workboat owners, Yanmar, with its long history as a supplier of high speed marine workboat engines, focused on the following:

Good Economy

Why? To achieve the desired workboat level of operating economy.
Result. Maximum fuel efficiency with low fuel consumption across a previously unheard of range of use conditions.

Lower Emissions

Why? To minimize adverse effect on the environment.
Result. Lower NO_x, SO_x, CO, less particulates, significantly less black smoke, particularly at idle or during hard acceleration.

High Torque

Why? To achieve the desired workboat responsiveness.
Result. Stable high torque in middle and high speed ranges for reliable work performance.

Excellent Reliability and Durability

Why? To create a tough engine requiring minimum downtime.
Result. Outstanding engine durability made possible by extra-stable lube oil consumption and long life fuel valves at the tip of each injector.

Easy to Maintain

Why? Because it's a Yanmar
Result. The same compactness and ease of maintenance as ever

Outstanding Work Functions PLUS Cost & Time Saving:

The NEW LOOK 6-cylinder Yanmar
485 kW marine diesel Engine



Photograph may show optional equipment.

ENGINE SPECIFICATIONS

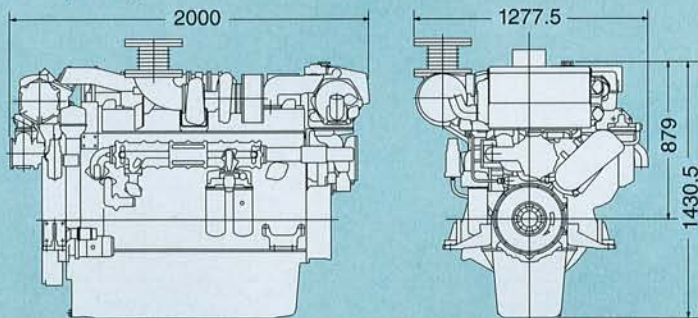
| Model | | 6AYM-STE |
|---|-------------------|---|
| Type | | 4-cycle, vertical, turbo-charged diesel engine |
| Number of cylinders | | 6 in-line |
| Bore x stroke mm | | 155 x 180 |
| Displacement lit. | | 20.379 |
| Rated output kW(mhp)/min ⁻¹ | | 485 (659)/1900 at flywheel |
| Fuel consumption g/kW-h | | 202 (at rated output) |
| Direction of rotation | | Counter-clockwise viewed from stern |
| Combustion system | | Direct injection |
| Governor | | Mechanical |
| Cooling system | | Constant high temperature cooling system |
| Volume of cooling fresh water lit. | | 68 (coolers & jacket) |
| Lubricating system | | Wet sump system, forced lubrication by gear pump |
| Volume of lubricating oil (in engine piping line : 20) lit. | | max.:91 min. : 48 (Standard oilpan) max.:53 min. : 31 (Shallow oilpan) |
| Dry mass kg | | 2365 (without marine gear) |
| Starting motor | | DC24V-7.0kW |
| Alternator | | DC24V-600W or 1000W |
| Dimensions | Overall length mm | 2000 |
| | Overall width mm | 1277.5 |
| | Overall height mm | 1430.5 (Standard oilpan) 1330.5 (Shallow oilpan) |

Note: mhp \approx 0.7355kW Rating are based on condition of 100 kPa, 30% relative humidity at 25°. Fuel rates: Specific gravity 0.835g/cc, Low calorific value 42700kj/kg (10200 kcal/kg), Centane No.45, Fuel consumption has a tolerance of +5%

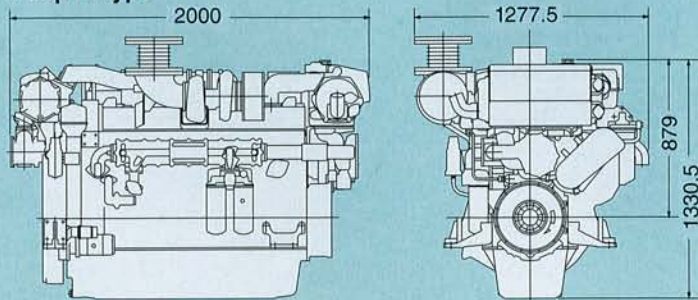
DIMENSIONS

Standard oilpan type

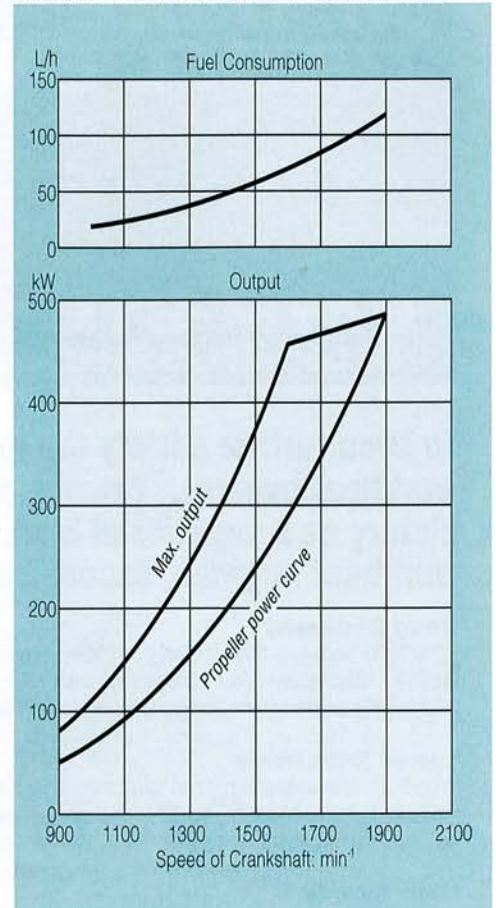
Unit: mm



Shallow oilpan type



PERFORMANCE CURVES



Note: All data subject to alteration without notice.

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