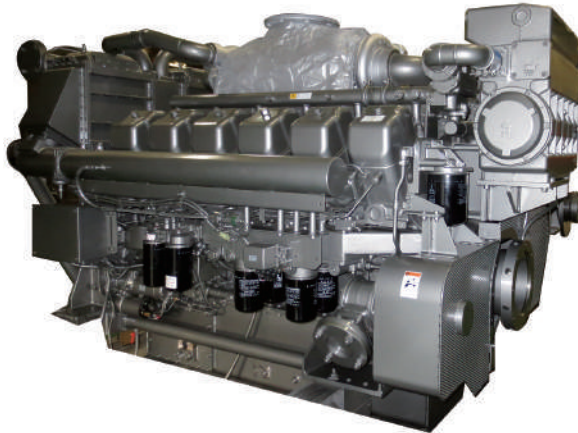


S12A2-T2MPTK

MARINE PROPULSION ENGINE

SPECIFICATIONS



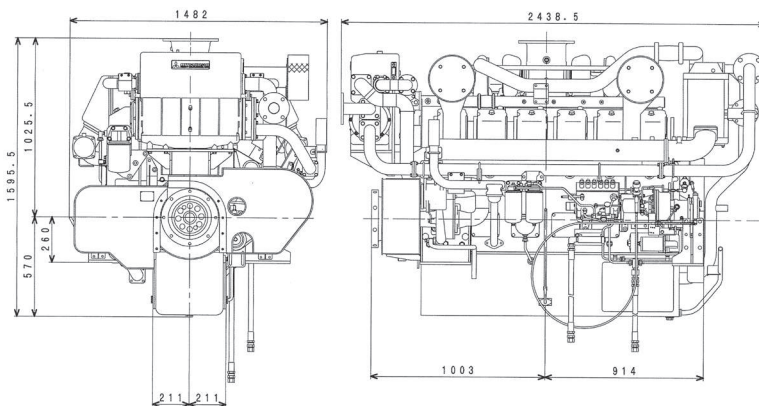
EIAPP	IMO II Compliant		
Configuration	In line 12 cylinder, 4-stroke diesel		
Piston	150 mm bore x 160 mm stroke		
Displacement	33.93 Liter		
Flywheel	SAE 18 inch, Housing SAE No.0		
Governor	Hydraulic		
Starting system	Electric starter moter DC24V, 7.5kW×2		
Cooling system	Engine coolant : Indirect cooling by seawater Intake air : Direct cooling by seawater		
Lub. Oil capacity	160 Liter		
Flesh water capacity	152 Liter		
B-rating	858kW / 1150HP / 1920rpm	C-rating	776kW / 1040HP / 1860rpm
D-rating	701kW /940HP / 1800rpm		

STANDARD EQUIPMENT

Engine	Sea water direct cooling type propulsion engine MHI turbochargers, PSG hydraulic governor, Heat exchanger, Sea water pump	Gearbox (option)	MGN90L, MGN91BL from Hitachi NICO
Panel	Meiyo instrument panel for W/H & E/R Alarm trip panel	Fuel system	Mechanical control
Accessories	Exhaust flexible pipe, Exhaust thermometer Standard spare parts, Standard tools	Cooling system	Direct seawater cooling with heat exchanger
		Exhaust system	Manifold and Mitsubishi turbochargers
		Lubrication system	Forced lubrication by gear driven
		Mounting system	Rigid mounts

DIMENSIONS

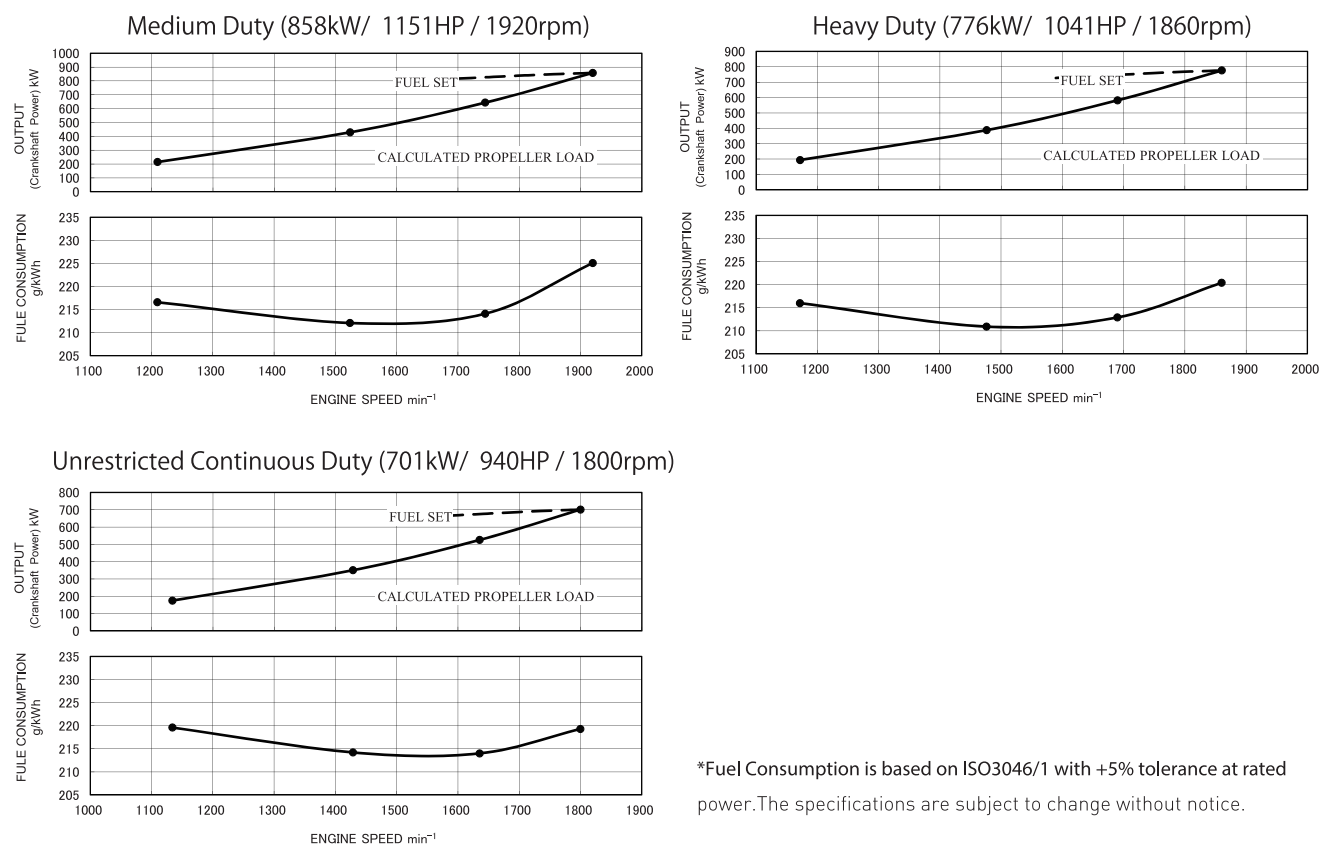
Overall dimensions	Length	2438.5mm
	Width	1482mm
	Height	1595.5mm
Total weight (Dry)	Dry weight	3890kg±10%



The rated power of diesel engines stated here corresponds to ISO3046-1:202 (E) and ISO 15550 : 2002 (E).
Sea water temperature : Max 32 °C
Specifications are subject to change without notice. All dimensions are approximate.
For complete information refer to installation drawing. For further information consult your Mitsubishi dealer.

Mitsubishi Heavy Industries Engine & Turbocharger, Ltd.

Performance Curve



CLASSIFICATION

B-rating	NK, LR, BV, ABS, VR	C-rating	NK, LR, BV, ABS, VR	D-rating	NK,LR, BV, ABS, VR
----------	---------------------	----------	---------------------	----------	--------------------

RATING DEFINITIONS

Rating Definitions for Marine Propulsion Engine					
Rating	Required condition for warranty			Reference	
Rating	Load/operating hour (*1)			Typical Operating hour per year	Typical Application
	Allowable average load factor per year	Allowable average speed (*2)	Allowable continuous operation with over 90% load		
B- rating	75% or lower	91% or lower	Up to 1hr per 6hr	3000 - 4000	Pleasure Boats, Yachts, Patrol Boats, Tug Boats, Fire Fighting Boats,
C- rating	83% or lower	94% or lower	Up to 8hr per 24hr	6000	Tug Boats, Working Boats, Passenger Boats, Ferry Boats
D- rating	100% or lower	100% or lower	Unlimited	unlimited	Fishing Boats, Cargo Boats, Pusher Boats

(*1) Average load factor shall be calculated as per the formula in ISO 8528-1:2018 'Average power output(Ppp).

(*2) This condition is applied to FPP(Fixed pitch propellers). For CPP(Controllable pitch propeller),allowable average load factor shall be the conditions required for warranty.

MITSUBISHI HEAVY INDUSTRIES ENGINE & TURBOCHARGER, LTD.

MARINE ENGINE SECTION, ENGINE DEPARTMENT, ENGINE & ENERGY DIVISION
TEL: 81-42-763-7854 FAX: 81-42-761-1994

Mitsubishi Heavy Industries Engine & Turbocharger, Ltd. serves for the customers with improved products continually.
Therefore specification and some materials are subject to be changed without prior notice.
The International System of units (SI) is used in this publication.

