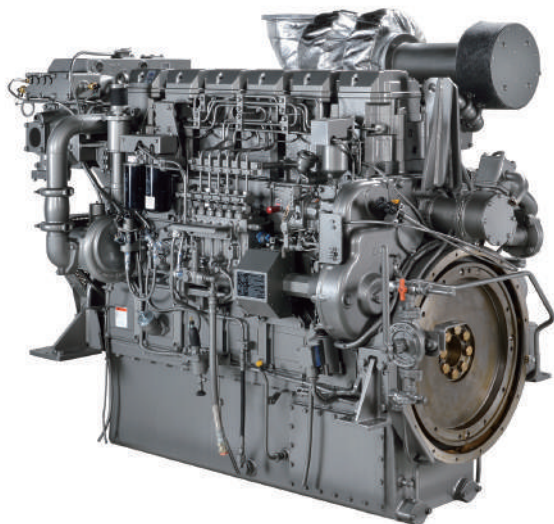


# S6R2-T2MTK3H/3M

## MARINE PROPULSION ENGINE

### SPECIFICATIONS



|                      |                                                                                          |
|----------------------|------------------------------------------------------------------------------------------|
| EIAPP                | IMO II Compliant                                                                         |
| Configuration        | In line 6 cylinder, 4-stroke diesel                                                      |
| Piston               | 170 mm bore x 220 mm stroke                                                              |
| Displacement         | 30.0 Liter                                                                               |
| Flywheel             | SAE 18 inch, Housing SAE No.0                                                            |
| Fuel injection pump  | MHIET Original PS                                                                        |
| Governor             | Hydraulic                                                                                |
| Starting system      | Electric starter motor DC24V, 7.5kW                                                      |
| Cooling system       | Engine coolant : Indirect cooling by seawater<br>Intake air : Direct cooling by seawater |
| Lub. Oil capacity    | 140 Liter                                                                                |
| Fresh water capacity | 120 Liter                                                                                |

D-rating 600kW / 804HP / 1350rpm

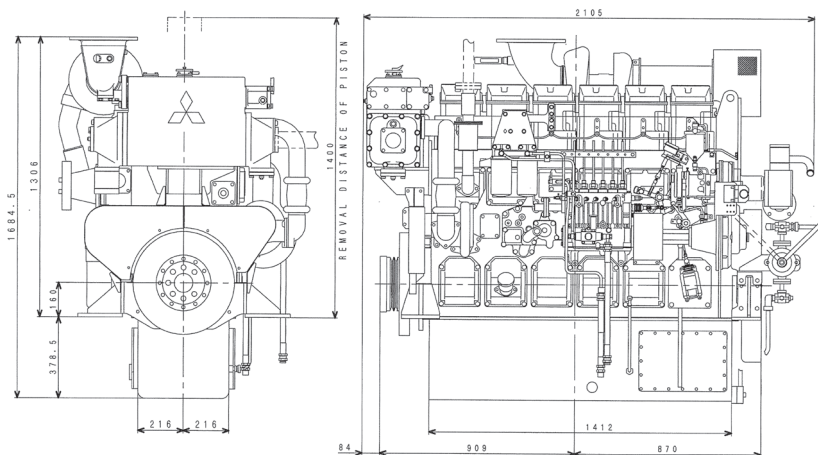
C-rating 691kW / 927HP / 1406rpm

### STANDARD EQUIPMENT

|             |                                                                                                                                                           |                    |                                                      |
|-------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|------------------------------------------------------|
| Engine      | Sea water direct cooling type propulsion engine<br>MHI turbochargers, MHI fuel injection pump<br>PSG hydraulic governor, Heat exchanger<br>Sea water pump | Gearbox (option)   | MGN90BL, MGN91BL from Hitachi NICO                   |
| Panel       | Meiyo instrument panel for W/H & E/R<br>Alarm trip panel                                                                                                  | Fuel system        | Mechanical control with Mitsubishi PS injection pump |
| Accessories | Exhaust flexible pipe, Exhaust thermometer<br>Standard spare parts, Standard tools                                                                        | Cooling system     | Direct seawater cooling with heat exchanger          |
|             |                                                                                                                                                           | Exhaust system     | Water cooled manifold and Mitsubishi turbochargers   |
|             |                                                                                                                                                           | Lubrication system | Forced lubrication by gear driven                    |
|             |                                                                                                                                                           | Mounting system    | Rigid mounts                                         |

### DIMENSIONS

|                    |            |          |
|--------------------|------------|----------|
| Overall dimensions | Length     | 2105mm   |
|                    | Width      | 1183mm   |
|                    | Height     | 1695mm   |
| Total weight (Dry) | Dry weight | 3130±10% |



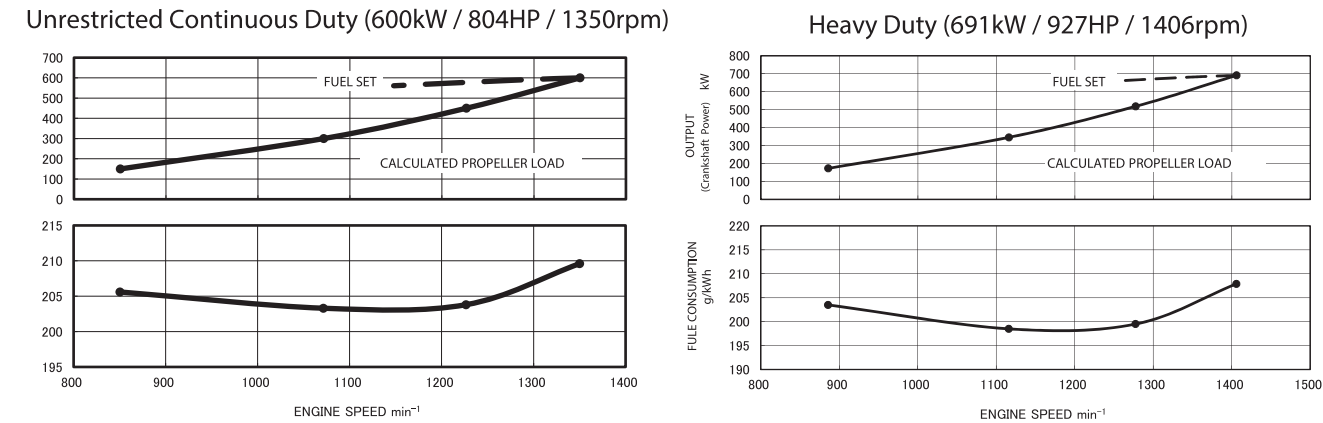
The rated power of diesel engines stated here corresponds to ISO3046-1:202 (E) and ISO 15550 : 2002 (E).

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.

# Performance Curve



\*Fuel Consumption is based on ISO3046/1 with +5% tolerance at rated power. The specifications are subject to change without notice.

## CLASSIFICATION

|          |                 |          |                     |
|----------|-----------------|----------|---------------------|
| D-rating | NK, LR, BKI, VR | C-rating | NK, LR, BV, BKI, 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.

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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.