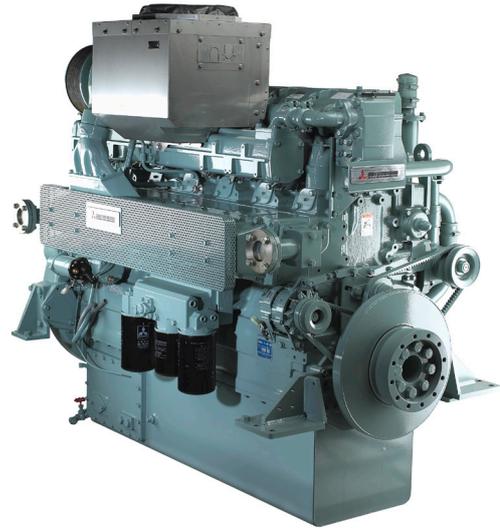


**S6R-MPTAW**  
545 - 635 kW | MARINE GENERATOR  
IMO TIER III

# MITSUBISHI MARINE ENGINE

RELIABLE MECHANICAL ENGINE



## ENGINE DATA

Engine model	S6R-MPTAW
Cylinder configuration	6 in-line
Total displacement	24.51
Bore x stroke (mm)	170 x 180
Flywheel and housing	SAE 18 / SAE 00
Compression ratio	14.5:1
Dry weight (kg)	2830

## Method of operation

4-stroke, water-cooled diesel engine, with direct-injection, turbocharger, air-cooler and exhaust after-treatment by SCR

## Cooling method

separate high and low temperature cooling circuit; charge air cooler by closed freshwater system controlled by thermostat (intercooler)

## RATING<sup>1,2</sup>

Application	Diesel-Electric Propulsion		Auxiliary Generator		Harbour Emergency Generator	
	DEP	DEP	Prime	Prime	Prime	Prime
Rating						
Output (kW)	545	577	545	635	545	635
Output (bhp)	731	774	731	851	731	851
Engine speed (rpm)	1500	1800	1500	1800	1500	1800
Gross torque (Nm)	3470	on request	3470	3369	3470	3369
Fuel consumption 100% load (g/kWh) <sup>3</sup>	208	on request	208	224	208	224
Fuel consumption 75% load (g/kWh) <sup>3</sup>	208	on request	208	221	208	221
Fuel consumption 50% load (g/kWh) <sup>3</sup>	214	on request	214	230	214	230
Emissions	IMO Tier III					

<sup>1</sup> For rating definitions, please see our website.

<sup>2</sup> Atmospheric condition: barometric pressure: 100kPa, ambient temperature: 298K, relative humidity: 30%.

<sup>3</sup> Fuel consumption is based on ISO3046/1 with +5% tolerance at rated power, weighing 836 g/liter and a LHV of 42,780 kJ/kg, excluding pump. Average fuel consumption recommended by ISO8178 (E3 standard test cycle for propulsion application FPP).

## STANDARD AND OPTIONAL EQUIPMENT

### STANDARD EQUIPMENT

#### Fuel system

- Flexible fuel supply - and return hoses
- Fuel feed pump
- Fuel fine filters, change-over type
- Fuel injection pump
- Dual walled high-pressure fuel lines
- Fuel injectors

#### Lubricating oil system

- Wet type oil pan with inspection covers
- Oil pressure pump, gear driven
- Lubricating oil filters, change-over type
- By-pass filter
- Oil cooler with thermostat

#### Starting and electrical system

- Electric starter (Earth floated 24V)
- Alternator, 30 Amps.
- Stop solenoid (ETS)

#### Cooling system

- Freshwater pump including piping and thermostat (HT)
- Front pulley PTO standard

#### Air inlet system

- Mitsubishi turbocharger
- Air inlet silencer with pre-cleaner

- Inlet air aftercooler or intercooler
- Inlet manifolds or ducts

#### Exhaust system

- Stainless steel insulation (SOLAS)

#### SCR after-treatment system

- SCR reactor
- Injection unit
- Dosing unit
- Shoot blower system
- Control system

#### Other

- Mounting brackets for rigid mounting
- Flywheel and housing, SAE standard
- Torsional vibration damper

#### Fuel system

- Drip tray fuel filters

#### Lubricating oil system

- Lubricating oil drain pump
- Pre-lubrication oil system
- Drip tray oil filters
- Breather kit for emergency gensets

#### Monitoring system

- Complete digital monitoring system
- Sensor package; sensors mounted on engine with terminal box

#### Starting and electrical system

- Air starter motor (30 bar)

#### Cooling system

- Cooling system with freshwater pump, V-belt including piping and thermostat (LT)
- Cooling water heater with circulation pump

### OPTIONAL EQUIPMENT

#### Classification

We are cooperating with many of the major classification societies.

#### Governor (mandatory)

- Hydraulic governor
- Electronic governor, with speed control box

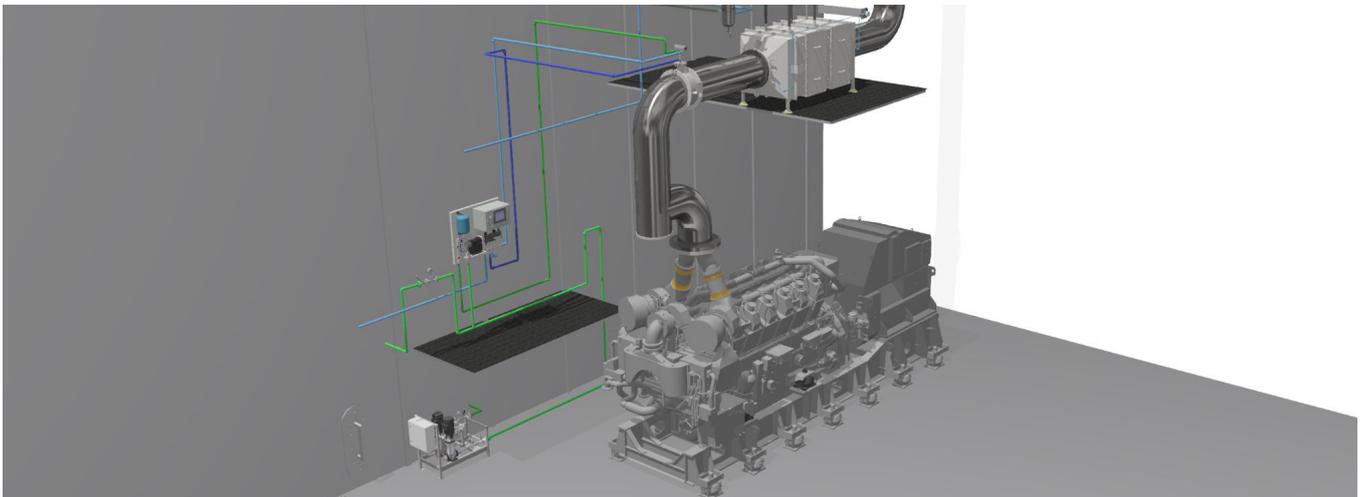
#### Exhaust system

- Flexible expansion joint

#### SCR after-treatment system

- Urea pump unit

## DIMENSIONS



### Dimensions

Engine L x W x H (mm)	1786 x 1220 x 1650
SCR unit (Horizontal or vertical) size (excl. insulation) L x W x H (mm)	893 x 882 x 2349
Mixing pipe requirements diameter (DN)*	400
Mixing pipe length (mm)*	2200

\* Insulation of the SCR system is not included in the scope of supply, to be supplied and installed by the shipyard.

### More information

Contact your local dealer for more information regarding Mitsubishi Marine Engines and optional equipment or, visit [www.mtee.eu](http://www.mtee.eu)

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