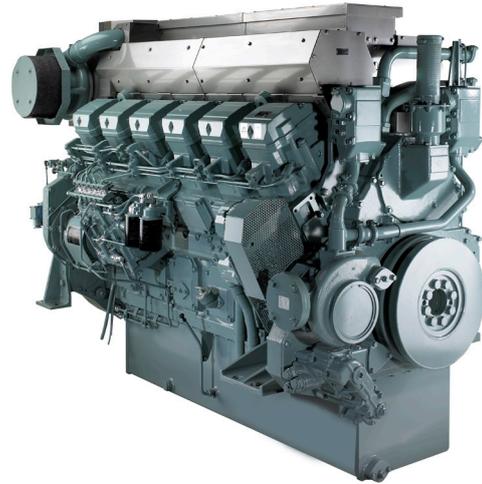


S12R-MPTA
1110 - 1190 kW | MARINE GENERATOR
NOT REGULATED

MITSUBISHI MARINE ENGINE

RELIABLE MECHANICAL ENGINE



ENGINE DATA

| | |
|------------------------|-----------------|
| Engine model | S12R-MPTA |
| Cylinder configuration | 12/60°V |
| Total displacement | 49.03 |
| Bore x stroke (mm) | 170 x 180 |
| Flywheel and housing | SAE 21 / SAE 00 |
| Compression ratio | 14.0:1 |
| Dry weight (kg) | 5230 |

Method of operation

4-stroke, water-cooled diesel engine, with direct-injection, turbocharger and air-cooler

Cooling method

single cooling circuit; charge air cooler integrated in jacket water system (aftercooler)

RATING^{1,2}

| Application | Auxiliary Generator | | Emergency Generator | |
|---|---------------------|-------|---------------------|-------|
| | Prime | Prime | Prime | Prime |
| Rating | | | | |
| Output (kW) | 1110 | 1190 | 1110 | 1190 |
| Output (bhp) | 1489 | 1596 | 1489 | 1596 |
| Engine speed (rpm) | 1500 | 1800 | 1500 | 1800 |
| Gross torque (Nm) | 721 | 644 | 721 | 644 |
| Fuel consumption 100% load (g/kWh) ³ | 207 | 214 | 207 | 214 |
| Fuel consumption 75% load (g/kWh) ³ | 212 | 220 | 212 | 220 |
| Fuel consumption 50% load (g/kWh) ³ | 218 | 232 | 218 | 232 |
| Average fuel consumption (l/h) ³ | 136.6 | 155.2 | 136.6 | 155.2 |
| Emissions | not regulated | | | |

¹ For rating definitions, please see our website.

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

³ 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 pumps
- Fuel fine filters, change-over type
- Fuel injection pumps
- 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

- Fresh water pump including piping and thermostat (HT)
- Cooling water pipe on thermostat housing (HT)
- Front pulley PTO standard

Air inlet system

- Mitsubishi turbochargers
- Air inlet silencers with pre-cleaner
- Inlet air aftercoolers or intercoolers
- Inlet manifolds or ducts

Exhaust system

- Stainless steel insulation (SOLAS)

Other

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

Lubricating oil system

- Pre-lubrication oil system
- Drip tray oil filters

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 fresh water pump, V-belt including piping and thermostat (LT)
- Big capacity front PTO
- 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

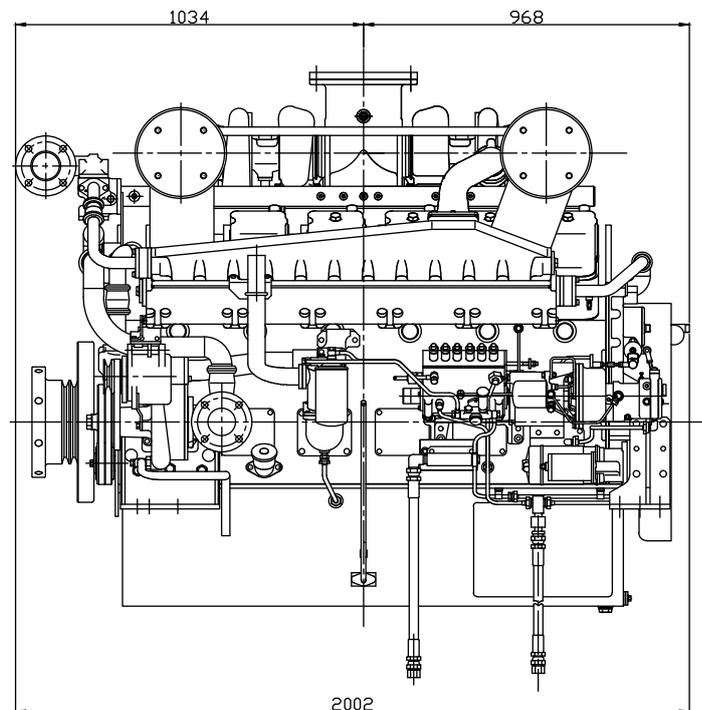
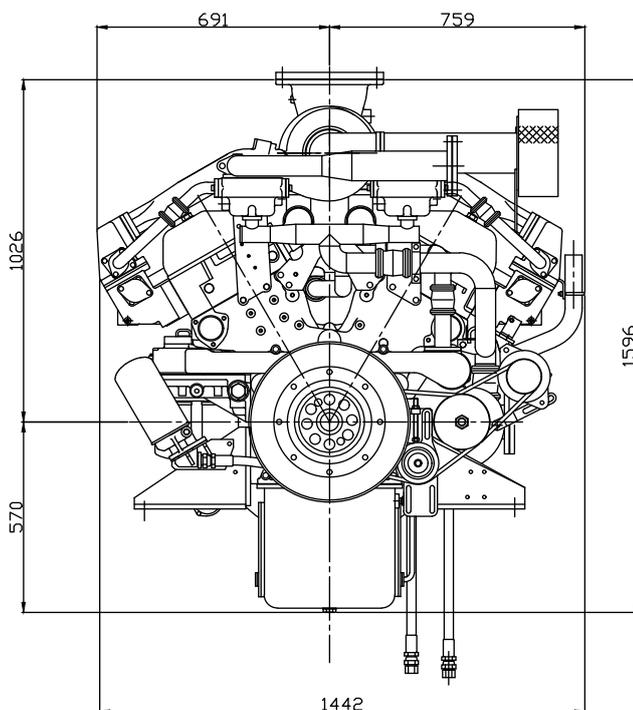
Fuel system

- Drip tray fuel filters

Exhaust system

- Flexible expansion joint
- Horizontal exhaust instead of vertical

DIMENSIONS



More information

Contact your local dealer for more information regarding Mitsubishi Marine Engines and optional equipment or, visit www.mtee.eu

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