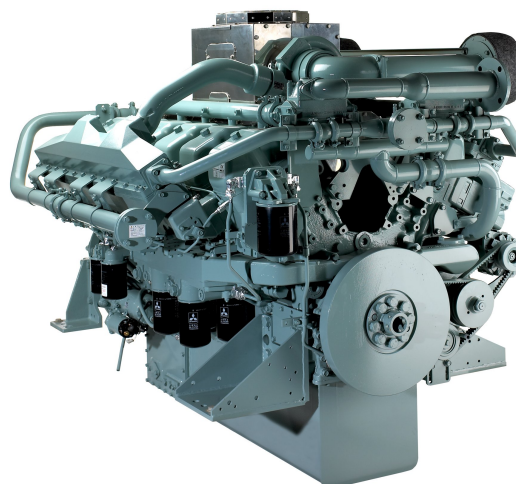


MITSUBISHI MARINE ENGINE

S12A2-MPTA

679–761 kW | Marine Generator

Not Regulated

Reliable mechanical engine


ENGINE DATA			
Engine model	S12A2-MPTA	Method of operation	12-cylinder, 4-stroke, water-cooled diesel engine, with direct-injection, turbocharger and air-cooler
Cylinder configuration	12/60°V		
Bore × stroke (mm)	150 x 160		
Total displacement (l)	33.93		
Compression ratio	13.9:1	Cooling method	single cooling circuit; charge air cooler integrated in jacket water system (aftercooler)
Flywheel and housing	SAE 18 / SAE 00		
Dry weight (kg)	3380		
Aspiration	Turbocharged and after-cooled		

RATING ^{1,2}			
Application	Generator		
Duty Class	Prime		Prime
Output (kW)	679		761
Output (bhp)	910		1020
Engine speed (rpm)	1500		1800
Gross torque (Nm)	4410		4120
Fuel consumption 100% load (g/kWh) ³	208		213
Fuel consumption 75% load (g/kWh) ³	210		218
Fuel consumption 50% load (g/kWh) ³	218		227
Average fuel consumption (l/h) ³	83		97.5
Emissions	Not Regulated		

¹ For rating definitions, please see our website.

² Atmospheric condition: barometric pressure: 100 kPa, ambient temperature: 298 K, 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 FPPI).

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

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

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)

OTHER

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

OPTIONAL EQUIPMENT

CERTIFICATION / CLASSIFICATION

- Available in cooperation with major classification societies.

GOVERNOR (MANDATORY)

- Hydraulic governor
- Electronic governor (not available for single engine propulsion)

FUEL SYSTEM

- Drip tray fuel filters

LUBRICATING OIL SYSTEM

- Drip tray oil filters
- Pre-lubrication oil system

MONITORING SYSTEM

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

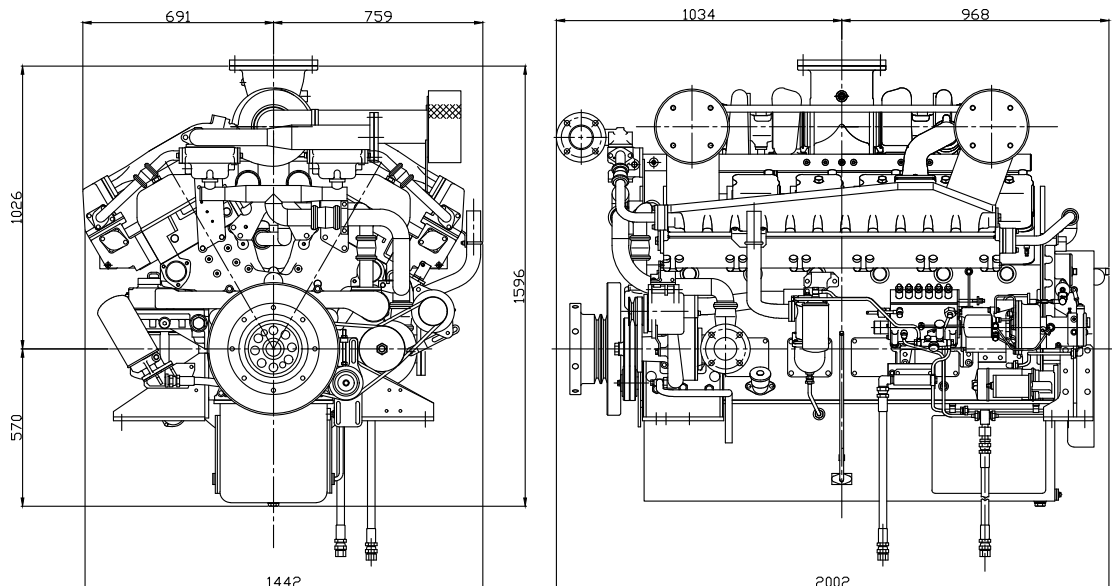
COOLING SYSTEM

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

EXHAUST SYSTEM

- Flexible expansion joint

DIMENSIONS



More information

Contact your local dealer for more information regarding Mitsubishi Marine Engines and optional equipment or, visit engine-genset.mhi.com