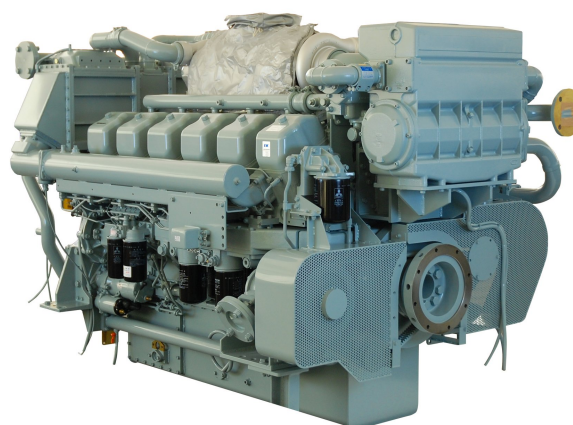


MITSUBISHI MARINE ENGINE

S12A2-T2MPTK

Propulsion engine · 701–858 kW

IMO-T2

Reliable mechanical engine


ENGINE DATA			
Engine model	S12A2-T2MPTK	Method of operation	12-cylinder, 4-stroke, water-cooled diesel engine, with direct-injection, turbocharger, air-cooler, built-up heat exchanger and sea water pump
Cylinder configuration	12/60°V		
Bore × stroke (mm)	150 x 160		
Flywheel and housing	SAE 18 / SAE 0		
Compression ratio	14.5:1	Cooling method	separate high and low temperature cooling circuit; charge air cooler directly cooled by sea water (intercooler)
Total displacement (l)	33.9		
Dry weight (kg)	3,820		
Aspiration	Turbocharged and after-cooled		

RATING ^{1,2}			
Rating	UCD	HD	MD
Output (kW)	701	776	858
Output (bhp)	939.55	1,040.07	1,149.98
Engine speed (rpm)	1,800	1,860	1,920
Gross torque (Nm)	—	—	—
Fuel cons. 100% load (g/kWh)	—	—	—
Fuel cons. 75% load (g/kWh)	—	—	—
Fuel cons. 50% load (g/kWh)	—	—	—
Running Hours	7000 - unlimited	5000-7000	3000 - 5000
Propulsion System	FPP	FPP	FPP
Emissions	IMO-T2		

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 based on ISO3046-1.

STANDARD AND OPTIONAL EQUIPMENT

AIR INLET SYSTEM

- Air inlet silencer with pre-cleaner
- Inlet air aftercooler or intercooler
- Inlet manifolds or ducts
- Mitsubishi turbocharger

LUBRICATING OIL SYSTEM

- By-pass filter
- Lubricating oil drain pump (wing pump)
- Lubricating oil filters, change-over type
- Oil cooler with thermostat
- Oil drain connection
- Oil pressure pump, gear driven
- Piston cooling through oil injectors
- Wet type oil pan with inspection covers

FUEL SYSTEM

- Dual walled high-pressure fuel lines
- Flexible fuel supply - and return hoses
- Fuel feed pump
- Fuel fine filters, change-over type
- Fuel injection pump
- Fuel injectors
- Fuel oil / water separator (filter)

EXHAUST SYSTEM

- Flexible expansion joint

MONITORING SYSTEM

- (Optional) Monitoring system (incl. sensors on engine, wiring to junction box, 1 x engine room panel, 1 wheel house panel)

OTHER

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

GOVERNOR

- Hydraulic governor, woodward type PSG

COOLING SYSTEM

- Flexible pipe sets for seawater
- Heat exchanger / header tank, mounted on engine, including piping and level switch and seawater pump (TK)
- Sea water filter

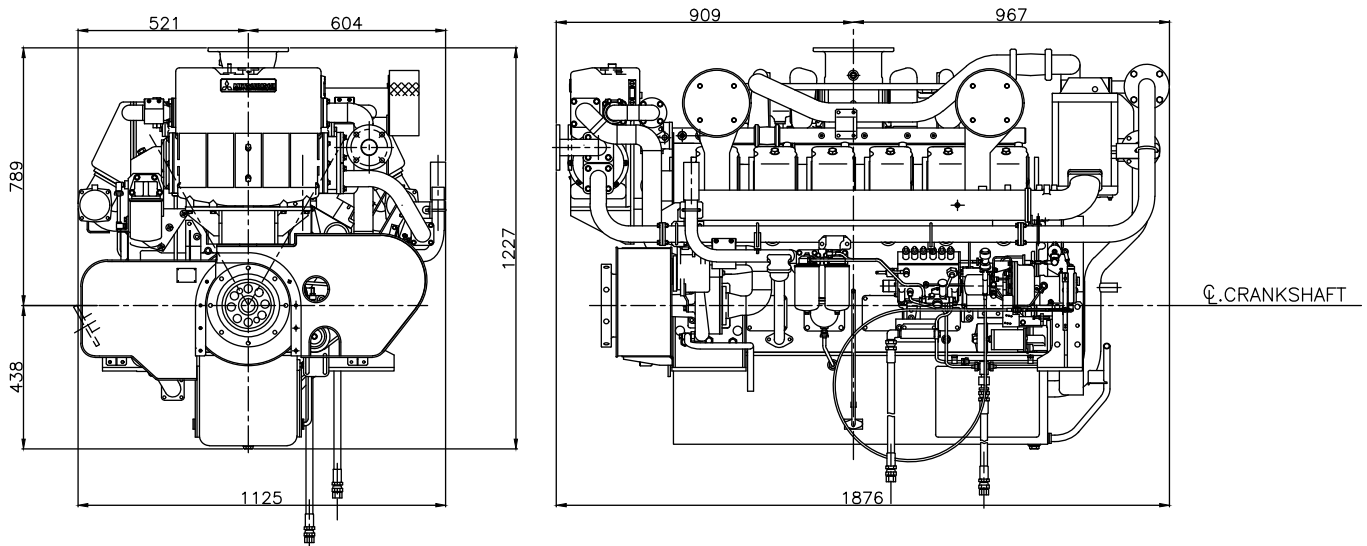
STARTING AND ELECTRICAL SYSTEM

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

CLASSIFICATION

- (Optional) We are cooperating with many of the major classification societies.

DIMENSIONS



More information

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