Marine Gas Engine Range (Miller Cycle) up to 1.5 MW

Spark ignited prechamber system

Applications

- Ferries
- Offshore Vessels
- Harbour Tugboats
- Inland Cargo Vessels

Features

- Higher thermal efficiency
- Highly efficient turbocharger
- Lower exhaust gas emissions
- Ultra lean burn gas - to - air ratio

Specifications

- Gas electric propulsion / auxiliary use
- Equipped with high-performance proprietary turbochargers

technical information

		GS6R-MPTK	GS6R2-MPTK	GS12R-MPTK	GS16R-MPTK	GS16R2-MPTK
Type		4-cycle, intercooled, Natural Gas engine	4-cycle, intercooled, Natural Gas engine	4-cycle, intercooled, Natural Gas engine	4-cycle, intercooled, Natural Gas engine	4-cycle, intercooled, Natural Gas engine
Aspiration		Turbocharged	Turbocharged	Turbocharged	Turbocharged	Turbocharged
Number of cylinders		6	6	12V	16V	16V
Bore x stroke mm		170x180	170x220	170x180	170x180	170x220
Displacement Ltr		24,52	29,96	49,03	65,37	79,9
Combustion system		Prechamber, Spark Ignited	Prechamber, Spark Ignited	Prechamber, Spark Ignited	Prechamber, Spark Ignited	Prechamber, Spark Ignited
Fuel		Natural Gas	Natural Gas	Natural Gas	Natural Gas	Natural Gas
Dry weight 50Hz / 60Hz kg		2400 / 2400	2650 / 2650	5350 / 5350	6770 / 6830	8105 / 7845
Continuous 'C' power rating output kWm hp	50Hz 1500rpm	363	na	722	959	1563
	60Hz 1200rprn	315	394	632	845	1250
Emission compliance		—	—	—	—	—
Dimensions mm	L x H x W	1797 x 1638 x 1088	1864 x 1718 x 1063	2421 x 2137 x 1832	2901 x 2137 x 1899	3067 x 2301 x 1980

Reliability combined with a Cleaner Environment

Since 1999, we have delivered gas engines to currently nine out of the seventeen Norwegian LNG-fuelled car/passenger ferries.

Mitsubishi Gas Engines are engineered and manufactured at the Mitsubishi Sagamihara factory in Japan, and operate using the Miller Cycle. They all have a combustion system with an ultra lean burn gas-to-air ratio, and a highly efficient turbocharger, which creates high boost pressure, higher thermal efficiency and lower exhaust gas emissions.

Mitsubishi Gas Engines have lower combustion temperatures thereby reducing thermal stress, and resulting in higher reliability. To top it off, we provide you with the compact sized engine you are accustomed to when choosing Mitsubishi engines, benefiting both installation and maintenance.

Typical Operation:

- Average Load Factor is 60-80% of Rated Power.
- Operating hours: 3,000- 6,000hrs per year.
- Momentary overload: 110 % is available for less than 25hrs per year on emergency basis.
- 100% of Rated Power is available for maximum of 3hrs per every 12hrs operation.

GL ISO 9001 ISO 14001
GL Systems Certification

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