

# S12R

OUTPUT - MARINE AUXILIARY - 1110~1270 kW  
 OUTPUT - MARINE PROPULSION - 880~1210 kW



## MARINE PROPULSION AND AUXILIARY ENGINES

### ***Economic Operation***

All Mitsubishi engines are designed and built to deliver performance as well as fuel efficiency. From the combustion chamber design to the fuel injection technology, to the turbocharger and the advanced cooling system...everything has been perfectly balanced to provide a highly economic operation and optimum fuel consumption across the entire power curve.

### ***Easy Maintenance***

With Mitsubishi's S12R marine engine, maintenance is very easy. Each cylinder has its own cylinder head and the engine has large inspection covers on the crankcase and oil pan. No auxiliary component requires separate lubrication, whether it's the fuel injection pump, the governor, the water pump or the turbocharger.

### ***Approved by All Major Classification Societies***

At our ISO certified manufacturing facilities, every Mitsubishi S12R diesel engine is built to meet the highest quality standards. All major marine classification societies, as well as the national shipping authorities, recognize the precision of Mitsubishi's manufacturing procedures.

### ***Environmental Compatibility***

Mitsubishi offers a full compiment of engines meeting IMO and EPA emissions standards

### ***Local Support Around The Globe***

A team of support specialists is available worldwide to ensure that service and maintenance are performed without delay.

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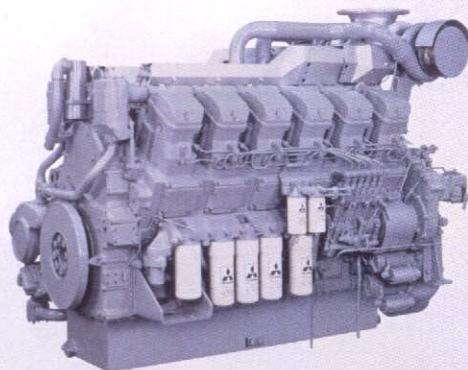


# mitsubishi MARINE

## S12R

## -Y1MPTA

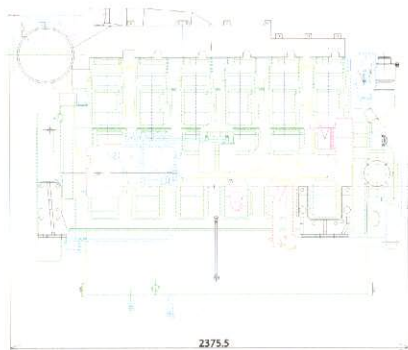
## -Y1MPTK



**EPA CERTIFIED**

Type	4-cycle, watercooled, turbocharged diesel engine MPTA with aftercooler, cooled by engine jacket water MPTK with intercooler, cooled by (sea) water of max 32°C	
Combustion System	Direct Injection	
Cylinder Arrangement	60°V, 12 Cylinder	
Bore x Stroke (mm)	170 x 180	
Total Displacement	49.03 Liters	
Compression Ratio	14.0 : 1	
Rotation	SAE Standard (Counter-Clockwise Viewed from Flywheel End)	
Starting System	Electric Motor, 24 Volt - 7.5kW (x2)	
Flywheel	SAE 21	
Flywheel Housing	SAE #00	
Fuel Oil	ASTM, D975 No. 1-D, No. 2-D	
Lubricating Oil	API Service Grade 'CD' Class	
Dry Weight (lbs.)	11,532	11,731
<u>Output Marine Auxiliary</u>	<u>kWm @ RPM</u>	<u>kWm @ RPM</u>
	1110 @ 1500	1120 @ 1500
	1190 @ 1800	1270 @ 1800
<u>Output Marine Propulsion</u>	<u>kWm @ RPM</u>	<u>kWm @ RPM</u>
<i>Heavy Duty</i>	880 @ 1600	940 @ 1600
<i>Medium Duty</i>	970 @ 1650	1040 @ 1650
<i>Light Duty</i>	1140 @ 1800	1210 @ 1800

### Outside Dimensions



### Standard Engine Equipment

#### Fuel System

Flexible fuel supply and return hoses, fuel feed pumps, change-over type fuel filters, MHI fuel injection pumps, double-wall fuel injection lines, fuel injectors, overflow valve

#### Lubricating Oil System

Wet type oil pan with inspection covers, oil pressure pump (gear driven), full-flow lubricating oil filters (change-over type), by-pass filter (change-over type), oil cooler with thermostat, piston cooling through oil injectors

#### Cooling System

Fresh water pump, thermostats with by-pass

#### 24 Volt Electric System Earth Floated

Starter motors (2 x 6kW), battery charging alternator (30 amp), energize-to-stop (ETS) stop solenoid

#### Air Intake and Exhaust System

Mitsubishi turbochargers with vertical exhaust outlet, air inlet silencers with pre-cleaner, inlet air aftercoolers or intercoolers, inlet manifolds, exhaust

manifolds, individual cylinder heads for easy service and maintenance, 4-valve cylinder head design for high efficiency and low emissions

#### General

Hydraulic Woodward PSG governor with oil supply system, mounting brackets, flywheel and housing SAE standard, torsional vibration damper, parts catalog and owners manual

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