



# MITSUBISHI ENGINE

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## S4S - SERIES 39.5 to 74 HP

	Model		S4S	S4S-DT
<b>Specifications</b>	<b>Type</b>		4-cycle, water-cooled, diesel engine	
			Naturally-Aspirated	Turbocharged
	<b>Cylinder arrangement-Bore x Stroke (mm)</b>		94 X 120	
	<b>Engine Configuration</b>		Inline 4 Cyl.	
	<b>Total Displacement - Liters</b>		3.331	
	<b>Combustion System</b>		Swirl Chamber-IDI	Direct Injection
	<b>Dry Weight</b>	kg / lbs.	245 / 540	250 / 551
	<b>Starting System</b>		Electric starting with cell starter	
	<b>Fuel Oil</b>		Diesel fuel oil (ASTM No. 2-D)	
<b>Power Unit</b>	<b>Continuous</b>	1500 rpm	29.4 (39.5)	36.8 (49.3)
		1800 rpm	34.9 (47.0)	41.5 (55.6)
	<b>Output</b>	2000 rpm	38.2 (51.0)	44.0 (59.0)
		2200 rpm	41.2 (55.5)	46.4 (62.3)
		2500 rpm	44.9 (60.0)	49.7 (66.6)
		<b>One-hour</b>	1500 rpm	30.9 (41.5)
	1800 rpm		36.8 (49.5)	46.1 (61.8)
	<b>Output</b>	2000 rpm	40.5 (54.0)	48.9 (65.5)
		2200 rpm	43.4 (58.0)	51.6 (69.2)
		2500 rpm	☆ 47.1 (63.0)	☆ 55.2 (74.0)
<b>Generators</b>	<b>Prime Power</b>	50Hz 1500 rpm	28.0 (37.5)	36.8 (49.5)
		60Hz 1800 rpm	33.5 (45.0)	43.4 (58.0)
	<b>Stand-By</b>	50Hz 1500 rpm	30.9 (41.5)	40.5 (54.0)
		60Hz 1800 rpm	☆ 36.8 (49.5)	☆ 47.8 (64.0)

☆ EPA CERTIFIED

### CONSTRUCTION

- Ribbed thin-wall cast iron crankcase for added strength and durability.
- Internal crankcase breather for reduced emissions.
- Extra large bearing surfaces for low bearing loads and long life.

### LUBRICATION

- Full flow spin-on cartridge filter.
- Forced circulation by a trochoid gear pump.
- Oil Capacity: 2.64 gal (10 lit.)

### FUEL & COMBUSTION SYSTEMS

- Bosch style fuel injection pump.
- Indirect injection combustion system on S4S model for low noise and emissions.

### MOUNTING

- Standard crankcase side mounting pads for flexible mounting arrangements.
- Rear engine support available from side pad mounting pads on SAE 3 housing.

### COOLING

- Forced circulation by centrifugal pump.
- Cooling packages available for ambient temperatures up to 122°F (50°C).
- Cooling Fan (Std. Eq.): Variable Speed (VS) - Suction Generator Drive (GS) - Pusher

### ELECTRIC SYSTEM

- Starter: 12V, 2.2kW
- Alternator: 12V, 50 amp with integral regulator.
- Glow Plugs: 12V
- High water temperature and low oil pressure switches.
- Stop Solenoid: 12V, energized to run (ETR) solenoid.

### GOVERNING

Mechanical governing is provided for either variable or constant speeds.

### DRIVES

- SAE 3 flywheel housing and 11.5 inch flywheel (GD & VS models).
- Rotation direction: counter-clockwise, facing the flywheel.
- Limited power hydraulic drives are available for mounting at the gear end.