

S6U2-TA

SPECIFICATION SHEET

**MITSUBISHI
DIESEL ENGINES**

GENERAL ENGINE DATA

Type	4-Cycle, Water Cooled
Aspiration	Turbo-Charged, After Cooler (Jacket Water to Cooler)
Cylinder Arrangement	Inline
No. of Cylinders	6
Bore mm (in.)	240 (9.45)
Stroke mm (in.)	300 (11.81)
Displacement liter (in ³)	81.43 (4969)
Compression Ratio	13.4 : 1
Dry Weight - Engine only - kg (lb)	8650 (19069)
Wet Weight - Engine only - kg (lb)	9360 (20635)

PERFORMANCE DATA

Steady State Speed Stability Band at any Constant Load - %	±0.5
Maximum Overspeed Capacity - min ⁻¹	1200
Moment of Inertia of Rotating Components GD ² - kgf · m ² (lbf · ft ²)	283.2 (6720)
(Includes Std. Flywheel)	
Cyclic Speed Variation with Flywheel at 1000 min ⁻¹	1/193
900 min ⁻¹	1/132

AIR INLET SYSTEM

Maximum Allowable Intake Air Restriction	
With Clean Filter Element - mm H ₂ O (in. H ₂ O)	300 (11.8)
With Dirty Filter Element - mm H ₂ O (in. H ₂ O)	760 (29.9)

EXHAUST SYSTEM

Maximum Allowable Back Pressure - mm H ₂ O (in. H ₂ O)	450 (17.7)
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LUBRICATION SYSTEM

Oil Pressure at Idle - MPa (psi)	0.15 (21.3)
at Rate Speed - MPa (psi)	0.44 - 0.69 (64 - 100)
Maximum Oil Temperature - °C (°F)	95 (203)
Oil Capacity of Standard Pan High - liter (U.S. gal.)	340 (89.8)
Low - liter (U.S. gal.)	230 (60.8)
Total System Capacity (Includes Oil Filter) - liter (U.S. gal.)	370 (97.8)
Maximum Installation Angle (Std. Pan)	Front Down - °
(Engine only)	Front Up - °
	Side to Side - °

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diesel engines**

COOLING SYSTEM

Coolant Capacity (Engine only) - liter (U.S. gal.)	370 (97.8)
Maximum External Friction Head at Engine Outlet - MPa (psi)	0.1 (14.2)
Maximum Static Head of Coolant above Crankshaft Center - m (ft)	12.5 (41.0)
Maximum Outlet Pressure of Engine Water Pump - MPa (psi)	0.25 (35.6)
Standard Thermostat (modulating) Range - °C (°F)	65 -75 (149 - 167)
Maximum Coolant Temperature at Engine Outlet -°C (°F)	95 (203)
Minimum Coolant Expansion Space - % of System Capacity	10

FUEL SYSTEM

Fuel Injection Pump Type	Bosch Type × 6
Maximum Suction Head of Feed Pump - mmHg (in. Hg)	110 (4.3)
Maximum Static Head of Leak Pipe - mmHg (in. Hg)	370 (14.6)

STARTING AIR SYSTEM

Air Reservoir Capacity - liter (U.S. gal)	200 (52.8)
No. of Air Reservoir	2
Air Pressure - MPa (psi)	2.94 (427)

The specifications are subject to change without notification.

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ENGINE RATING

All data represent net performance with standard accessories such as fuel injection pump, water pump, L.O. pump under the following conditions;

Barometric pressure ; 100 kPa (750 mmHg)

Ambient temperature ; 298 K (25 °C)

Relative humidity ; 30%

Calorific value of fuel ; 42,700kJ/kg

ITEM	UNIT	Engine Speed min^{-1}				Remarks
		1200	1000	900	750	
Brake Horse Power	kW		1306	1194	947	Prime power
Specific Fuel Consumption	g/kWh		200	198	201	Allowance +5%
Break Mean Effective Press.	MPa		1.93	1.96	1.86	
Mean Piston Speed	m/s		10.0	9.0	7.5	
Intake Air Flow	m^3/min		133.7	107.3	71.5	
Exhaust Gas Flow	m^3/min		297.5	251.3	187.3	
Jacket Water Flow	l/min		1100	1000	850	
Jacket Water Pressure	MPa		0.13	0.11	0.08	
Cooling water (A/C & O/C) Flow	l/min		1100	1000	850	
Oil Flow	l/min		604	544	435	
Radiated Heat to Ambient	$\times 10^4 \text{kcal}/\text{h}$		7.99	7.23	N.A.	
Heat Rejection to Jacket Water	$\times 10^4 \text{kcal}/\text{h}$		23.98	21.70	N.A.	
Heat Rejection to Air & Oil Cooler	$\times 10^4 \text{kcal}/\text{h}$		27.98	26.52	N.A.	
Heat Rejection to Exhaust	$\times 10^4 \text{kcal}/\text{h}$		94.18	83.01	N.A.	
Noise Level	dB(A)		111	108	N.A.	Mechanical 1 m Dis. 1.5m H.
Max. No Load Governored Speed	min^{-1}		1050	945	790	

Note: Break horse power at flywheel end

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APPLICATION: LAND-USE GENERATOR