



ENGINE SPECIFICATIONS

STANDARD FEATURES	Manufacturer / Model	MITSUBISHI S12R-PTA , 4-strokes, Turbo , N/A 12 X
	Cylinder Arrangement	V
	Displacement	49.03L [2992.0C.I.]
	Bore and Stroke	180mm [7.1in.] X 170mm [6.7in.]
	Compression ratio	14.0:1
	Rated RPM	1500 Rpm
	Piston Speed	9m/s [29.5ft./s]
	Max. stand by Power at rated RPM	1220kW [1635BHP]
	Frequency regulation, steady state	+/-0. 25%
	BMEP	18.5bar [268psi]
Governor : type	Elec	
EXHAUST SYSTEM	Exhaust gas flow	492°C [918°F]
	Exhaust temperature	3916L/s [8298cfm]
	Max back pressure	600mm CE [24in. WG]
FUEL SYSTEM	110% (Stand By power)	300L/h [79.3gal/hr]
	100% (of the Prime Power)	271L/h [71.6gal/hr]
	75% (of the Prime Power)	208L/h [55.0gal/hr]
	50% (of the Prime Power)	151L/h [39.9gal/hr]
	Max. fuel pump flow	588L/h [155.3gal/hr]
OIL SYSTEM	Total oil capacity w/filters	180L [47.6gal]
	Oil Pressure low idle	2.5bar [36.2psi]
	Oil Pressure rated RPM	5.8bar [84.0psi]
	Oil consumption 100% load	1L/h [0.3gal/hr]
	Oil capacity carter	150L [39.6gal]
THERMAL BALANCE	Heat rejection to exhaust	758kW [43100Btu/mn]
	Radiated heat to ambient	78kW [4435Btu/mn]
	Heat rejection to coolant	649kW [36902Btu/mn]
AIR INTAKE	Max. intake restriction	400mm CE [16in. WG]
	Engine air flow	1483L/s [3143cfm]
COOLANT SYSTEM	Radiator & engine capacity	300L [79.3gal]
	Max water temperature	98°C [208°F]
	Outlet water temperature	95°C [203°F]
	Fan power	30 kW
	Fan air flow w/o restriction	25.9m ³ /s [54884cfm]
	Available restriction on air flow	20mm CE [0.8in. WG]
	Type of coolant	Gencool
	Thermostat	82-94 °C
GAS SYSTEM	HC	110 mg/Nm ³
	CO	590 mg/Nm ³
	Nox	3700 mg/Nm ³
	PM	120 mg/Nm ³