GENERAL ENGINE DATA - 4-Cycle, Water Cooled Type Aspiration Turbo-Charged, Inter Cooler (Fresh water to Cooler) --- 60°V Cylinder Arragement No.of Cylinders _______16 Bore mm(in.) _______170 (6.69)Stroke mm(in.) ________180 (7.09)Displacement liter(in³) 65.37 (3989)14.5:1 Compression Ratio Dry Weight - Engine only - kg(lb) 6530 Wet Weight - Engine only - kg(lb) 6907 (14399)(15230)PERFORMANCE DATA Steady State Speed Stability Band at any Constant Load Electric Governor - % ± 0.25 or better Maximum Overspeed Capacity - rpm -2100Moment of inertia of Rotating Components - kgf · m²(lbf · ft²) — 80.83 (1918.5) (Includes Std.Flywheel) _____1/268 Cyclic Speed Variation with Flywheel at 1800rpm **ENGINE MOUNTING** Maximum Bending Moment at Rear Face of Flywheel Housing - kgf·m(lbf·ft) ———450 (3255.6)AIR INLET SYSTEM Maximum Intake Air Restriction (Includes piping) With Clean Filter Element - mm H₂O (in.H₂O) 400 (15.7)635 With Dirty Filter Element - mm H₂O (in.H₂O) (25.0)EXHAUST SYSTEM Maximum Allowable Back Pressure - mm H₂O (in.H₂O) - 600 (23.6)LUBRICATION SYSTEM Oil Pressure at ldle - kgf/cm²(psi) 2 ~ 3 $(29 \sim 43)$ at Rate Speed - kgf/cm²(psi) 5 ~ 6.5 (71 ~ 93) _____110 Maximum Oil Temperature - °C(°F) 230 High - liter (U.S.gal) ______200 Oil Capacity of Standard Pan (53)(37.0)Total System Capacity (Includes Oil Filter) - liter (U.S.gal) (60.8)_____5° Maximum Angle of Installation (Std. Pan) Front Down (Engine Only) Front Up _____22.5° Side to Side COOLING SYSTEM Coolant Capacity of Jacket (Engine only) - liter (U.S.gal) _____142 (37.5)Coolant Capacity of Air cooler (Engine only) - liter (U.S.gal) _______28 (7.4)Maximum External Friction Head at Engine Outlet - kgf/cm²(psi) Maximum External Friction Head at Engine Outlet - kgt/cm (pst) (For Jacket and Air Cooler) Maximum Static Head of Coolant above Crankshaft Center - m(ft) Maximum Static Head of Coolant above Crankshaft Center - m(ft) 10 (32.8) 71 ~ 85 (160 ~ 185) 42 ~ 55 (108 ~ 131) Standard Thermostat (modulating)Range of Air Cooler - °C(°F) Maximum Coolant Temperature at Engine Outlet of Jacket - °C(°F) ———————98 (208)Minimum Coolant Expansion Space - % of System Capacity (For Jacket and Air Cooler) ---10 (0.4)Maximum Coolant Temperature at Intercooler Inlet, PTAW type - °C(°F) ——45 (113)Maximum Air Restriction on Discharge Side of Radiator and Fan - mm H₂O(in.H₂O)—10 (0.4)

Certified for US EPA-Tier 2 / Constant Speed Standard Model [1600kWe/60Hz]

S16R-Y2PTAW-1

SPECIFICATION SHEET

MITSUBISHI DIESEL ENGINES

FUEL SYSTEM	
Fuel Injector	Mitsubishi PS8 Type × 2
Maximum Suction Head of Feed Pump - mm Hg (in. Hg)	75 (3.0)
Maximum Static Head of Return Pipe - mm Hg (in.Hg)	150 (5.9)
STARTING SYSTEM	
Battery Charging Alternator - V- Ah	24-30
Starting Motor Capacity - V - kW	$24-7.5 \times 2$
Maximum Allowable Resistance of Cranking Circuit - m	1.5
Recommended Minimum Battery Capacity	
At 5°C (41°F) and above - Ah	300
Below 5°C (41°F) through - 5°C (23°F)	600

The specifications are subject to change without notice.

SPECIFICATION SHEET

MITSUBISHI DIESEL ENGINES

ENGINE RATING

S16R-Y2PTAW-1

All data represent net performance with standard accessories such as air cleaner, inlet /exhaust manifolds, fuel oil system, L.O. pump, etc. under the condition of 100kPa(29.6inHg) barometric pressure, 77 °F(25°C) ambient temperature and 30% relative humidity.

ITEM	UNIT	STAND-BY POWER	PRIME POWER		
		60Hz	60Hz		
Engine Speed	rpm	1800	1800		
No. of Cylinders		16			
Bore	mm	170			
	(in.)	(6.69)			
Stroke	mm	180			
	(in.)	(7.09)			
Displacement	liter	65.37			
	(in. ³)	(3989)			
Brake Horse power without Fan	HP	2346	2133		
	(kW)	(1750)	(1591)		
Brake Mean Effective Pressure	kgf/cm ²	18.2	16.5		
without Fan	(psi)	(259)	(235)		
Mean Piston Speed	m/s	10.8	10.8		
	(ft/min)	(2126)	(2126)		
Maximum Regenerative Power	HP	258	258		
Absorption Capacity without Fan	(kW)	(192)	(192)		
Intake Air flow	m ³ /min	168	151		
	(CFM)	(5932)	(5332)		
Exhaust Gas Flow	m ³ /min	443	399		
	(CFM)	(15642)	(14089)		
Coolant Flow	liter/min	1850	1850		
	(U.S. GPM)	(489)	(489)		
Coolant Flow to Intercooler	liter/min	920	920		
(PTAW only)	(U.S. GPM)	(243)	(243)		
Cooling Air Flow	m ³ /min	-	_		
(Std. Fan)	(CFM)	-	-		
Allowable Fan Loss Horse Power	HP	67	67		
	(kW)	(50)	(50)		
Radiated Heat to Ambient	kcal/hr	126194	113619		
	(BTU/min)	(8346)	(7515)		
Heat Rejection to Coolant	kcal/hr	546842	492350		
	(BTU/min)	(36167)	(32563)		
Heat Rejection to Air Cooler	kcal/hr	546842	492350		
(PTAW Version)	(BTU/min)	(36167)	(32563)		
Heat Rejection to Exhaust	kcal/hr	1481893	1320996		
	(BTU/min)	(98010)	(87369)		
Noise Level (1 m height & distance)	dB(A)	112	109		
(excludes, lntake,Exhaust & Fan)					

The specifications are subject to change without notice.

APPLICATION: GENERATOR