



Genset

Model	JHSL-500GF
Voltage	400/480V
Frequency&Speed	50HZ&60HZ
Prime Power	450kW/563kVA
Standby Power	500kW/624kVA

- **Engine: Mitsubishi S6R-PTA**
- **Alternator: Stamford/Leroy Somer /Hengsheng**
- **Controller: DeepSea/SmartGen /DEIF/ComAp**

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.)	170	(6.69)
Stroke mm(in.)	180	(7.09)
Displacement liter(ir ³)	24.51	(1496)
Compression Ratio	14.0:1	
Dry Weight - Engine only - kg(lb)	2300	(5072)
Wet Weight - Engine only - kg(lb)	2440	(5380)

PERFORMANCE DATA

Steady State Speed Stability Band at any Constant Load		
Hydraulic (std.) or Electric Governor - %	±0.25 or better	
Maximum Overspeed Capacity - rpm	2100	
Moment of inertia of Rotating Components - kg·m ² (lb·ft ²)	38.26	(908.1)
(Includes Std. Flywheel)		
Cyclic Speed Variation with Flywheel a	1800rpm	1/164
	1500rpm	1/110
	1200rpm	1/76

ENGINE MOUNTING

Maximum Bending Moment at Rear Face of Flywheel Housing - kg·m(lb·ft)	200	(1447)
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AIR INLET SYSTEM

Maximum Intake Air Restriction (Includes piping)		
With Clean Filter Element - mm H ₂ O (in. H ₂ O)	400	(15.7)
With Dirty Filter Element - mm H ₂ O (in. H ₂ O)	635	(25.0)

EXHAUST SYSTEM

Maximum Allowable Back Pressure - mm H ₂ O (in. H ₂ O)	600	(23.6)
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LUBRICATION SYSTEM

Oil Pressure at Idle - kgf/cm ² (psi)	2~3	(29~43)
at Rate Speed - kgf/cm ² (psi)	5~6.5	(71~93)
Maximum Oil Temperature - °C(°F)	110	(230)
Oil Capacity of Standard Pan	High - liter (U.S. gal)	80 (21.1)
	Low - liter (U.S. gal)	50 (13.2)
Total System Capacity (Includes Oil Filter) - liter (U.S. gal)	100	(26.4)
Maximum Angle of Installation (Std. Pan)	Front Down	11.5°
(Engine Only)	Front Up	10°
	Side to Side	22.5°

COOLING SYSTEM

Coolant Capacity (Engine only) - liter (U.S.gal)	50	(13.2)
Maximum External Friction Head at Engine Outlet - kgf/cm ² (psi)	0.35	(5.0)
Maximum Static Head of Coolant above Crankshaft Center - m(ft)	10	(32.8)
Maximum Outlet Pressure of Engine Water Pump - kgf/cm ² (psi)	2.6	(37.1)
Standard Thermostat (modulating)Range -°C(°F)	71~85	(160~185)
Maximum Coolant Temperature at Engine Outlet -°C(°F)	98	(208)
Minimum Coolant Expansion Space - % of System Capacity	10	
Maximum Coolant Temperature at Intercooler Inlet, TK type -°C(°F)		
Maximum Air Restriction on Discharge Side of Radiator and Fan-mm H ₂ O(in.H ₂ O)	10	(0.4)

FUEL SYSTEM

Fuel Injector	Mitsubishi PS6 Type × 1
Maximum Suction Head of Feed Pump - mm Hg (in. Hg)	75 (3.0)
Maximum Static Head of Return & Leak 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
Maximum Allowable Resistance of Cranking Circuit - mΩ	2.5
Recommended Minimum Battery Capacity	
At 5°C (41°F) and above - Ah	200
Below 5°C(41°F) through - 5°C(23°F)	500

ITEM	UNIT	STAND-BY POWER			PRIME POWER			CONTINUOUS D		CONTINUOUS D	
		60Hz	50Hz	60Hz	60Hz	50Hz	60Hz	60Hz	50Hz	60Hz	50Hz
Engine Speed	rpm	1800	1500	1200	1800	1500	1200	1800	1500	1800	1500
No. of Cylinders		6									
Bore	mm (in.)	170 (6.69)									
Stroke	mm (in.)	180 (7.09)									
Displacement	liter (in. ³)	24.51 (1496)									

Alternator

Pole No.	4-Pole	
Exciter Type	Single bearing, Brushless, Self-excited	✧ NEMAMG1.JIANGHAO,and ANSI standards compliance for temperature rise and motor starting.
Power factor	0.8	
Voltage adjust range	≅ 5%	✧ Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
Insulation Grade	H	
Protection Grade	IP23/22	✧ Sustained short-circuit current enabling down stream circuit breakers to trip without collapsing the generator field.
Phase / wire	3 phase 4 wires	✧ Self-ventilated and dripproof construction.
✧ Superior voltage waveform from two-thirds Pitch windings and skewed stator.		
✧ Digital solid-state.volts-per-hertz voltage Regulator with +1% no-load to full-load regulation.		

Control Panel



The control module gives digital readouts of:

- Generator voltage;
- Output frequency;
- Engine speed;
- Battery voltage;
- Engine hours run.



Dimension:3600*1600*2300mm

Weight:5000kg



Dimension:4700*2100*2400mm

Weight:7900kg

Fuel Tank Capacity:1000L

The **control panel** is an Digital Control Module suitable for a wide variety of single, diesel or gas, gen-set applications.

Monitoring an extensive number of engine parameters, the module will display warnings, shutdown and engine status information on the back-lit LCD screen and illuminated LEDs.

The control module has indicators for failure information:

- Over speed/Low speed,
- Emergency stop
- Low oil pressure;
- High water temperature
- Failure to start
- Battery charger failure

Automatic shutdown occurs under:

- Low engine oil pressure;
- High engine water temperature;
- Over speed/Low speed;
- Failure to start after three attempts.

Electrical system

- Maintenance-free and anti-explosion battery
- Standard breaker
- ABB breaker (optional)
- ATS (optional)
- Battery charger (optional)
- GMS monitoring (optional)

Packing

- Wrapping film packaging
- Tray packaging
- plywood box packaging

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