



Genset

Model	JHSL-1100GF
Voltage	400/480V
Frequency&Speed	50HZ&60HZ
Prime Power	1049kW/1311kVA
Standby Power	1157kW/1446kVA

- **Engine: Mitsubishi S12R-PTA2**
- **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	60°V	
No. of Cylinders	12	
Bore mm(in.)	170	(6.69)
Stroke mm(in.)	180	(7.09)
Displacement liter(ir ³)	49.03	(2992)
Compression Ratio	13.5:1	
Dry Weight - Engine only - kg(lb)	4880	(10760)
Wet Weight - Engine only - kg(lb)	5160	(11378)
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)	75.3	(1787)
(Includes Std. Flywheel)		
Cyclic Speed Variation with Flywheel a	1800rpm	1/507
	1500rpm	1/294
ENGINE MOUNTING		
Maximum Bending Moment at Rear Face of Flywheel Housing - kg·m(lb·ft)	450	(3256)
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)
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)	150 (39.6)
	Low - liter (U.S.gal)	108 (28.5)
Total System Capacity (Includes Oil Filter) - liter (U.S.gal)	180 (47.6)	
Maximum Angle of Installation (Std. Pan)	Front Down	6.5°
(Engine Only)	Front Up	6.5°
	Side to Side	22.5°

COOLING SYSTEM

Coolant Capacity (Engine only) - liter (U.S. gal)	125	(33.0)
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	(28.6)
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 × 2
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-AI	24-30
Starting Motor Capacity - V -kW	24-7.5×2
Maximum Allowable Resistance of Cranking Circuit - n Ω	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

ITEM	UNIT	STAND-BY POWER			PRIME POWER		
		60Hz	50Hz		60Hz	50Hz	
Engine Speed	rpm	1800	1500		1800	1500	
No. of Cylinders		12					
Bore	mm (in.)	170 (6.69)					
Stroke	mm (in.)	180 (7.09)					
Displacement	liter (in. ³)	49.03 (2992)					

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	✧ Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
Voltage adjust range	≅5%	✧ Sustained short-circuit current enabling down stream circuit breakers to trip without collapsing the generator field.
Insulation Grade	H	✧ Self-ventilated and dripproof construction.
Protection Grade	IP23/22	
Phase / wire	3 phase 4 wires	
✧ 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:4650*2200*2700mm

Weight:9600kg



Dimension:6000*2400*2900mm

Weight:11900kg

Fuel Tank Capacity:1000-3000L

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

Jiangsu Jianghao Generator Co.,Ltd

Address: No.1 Xixu Road, Medical High-tech Zone,
Taizhou city, Jiangsu, China

Contact Person: Anthony Feng

Email: jhfsale@jhgenerator.com

WhatsApp: +86 18652649673

