



Genset

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|-----------------|----------------|
| Model | JHSL-1000GF |
| Voltage | 400/480V |
| Frequency&Speed | 50HZ&60HZ |
| Prime Power | 972kW/1215kVA |
| Standby Power | 1071kW/1339kVA |

- **Engine: Mitsubishi S12R-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 | 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 | 14.0:1 |
| Dry Weight - Engine only - kg(lb) | 4800 (10584) |
| Wet Weight - Engine only - kg(lb) | 5080 (11201) |

PERFORMANCE DATA

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|--|-----------------|
| 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 at 1800rpm | 1/565 |
| 1500rpm | 1/394 |
| 1200rpm | 1/253 |

ENGINE MOUNTING

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|---|------------|
| Maximum Bending Moment at Rear Face of Flywheel Housing - kg·m(lb·ft) | 450 (3256) |
|---|------------|

AIR INLET SYSTEM

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|--|------------|
| 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 Rated 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

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|---|-------------------------|
| 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

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|---|----------|
| Battery Charging Alternator - V-Ah | 24-30 |
| Starting Motor Capacity - V -kW | 24-7.5×2 |
| Maximum Allowable Resistance of Cranking Circuit - mΩ | 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 | | | CONTINUOUS C | | 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 | | 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 | ✧ NEMAMG1.JIANGHAO,and ANSI standards compliance for temperature rise and motor starting. |
| Exciter Type | Single bearing, Brushless, Self-excited | |
| Power factor | 0.8 | |
| Voltage adjust range | ≤5% | |
| Insulation Grade | H | ✧ Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds. |
| 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.

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



Dimension:4650*2100*2600mm

Weight:9100kg

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



Dimension:6000*2400*2900mm

Weight:11400kg

Fuel Tank Capacity:1000-3000L

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