



Genset

Model	JHSL-640GF
Voltage	400/480V
Frequency&Speed	50HZ&60HZ
Prime Power	590kW/738kVA
Standby Power	652kW/815kVA

- **Engine: Mitsubishi S12A2-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.)	150	(5.91)
Stroke mm(in.)	160	(6.30)
Displacement liter(ir ³)	33.93	(2071)
Compression Ratio	14.5:1	
Dry Weight - Engine only - kg(lb)	2920	(6439)
Wet Weight - Engine only - kg(lb)	3140	(6924)

PERFORMANCE DATA

Steady State Speed Stability Band at any Constant Load		
Hydraulic (std.) or Electric Governor - %	±0.25 or better	
Maximum Overspeed Capacity - rpr	2400	
Moment of inertia of Rotating Components - kg·m ² (lb·ft ²)	37.7	(895)
(Includes Std. Flywheel)		
Cyclic Speed Variation with Flywheel a	1800rpm	1/569
	1500rpm	1/335
	1200rpm	1/214

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 (71~86)	
Maximum Oil Temperature - °C(°F)	110 (230)	
Oil Capacity of Standard Pan	High - liter (U.S. gal)	100 (26.4)
	Low - liter (U.S. gal)	80 (21.1)
Total System Capacity (Includes Oil Filter) - liter (U.S. gal)	120 (31.7)	
Maximum Angle of Installation (Std. Pan)	Front Down	9.5°
(Engine Only)	Front Up	11°
	Side to Side	22.5°

COOLING SYSTEM

Coolant Capacity (Engine only) - liter (U.S.gal)	_____	100	(26.4)
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)	_____	1.7	(24.3)
Standard Thermostat (modulating)Range -°C(°F)	_____	65~85	(149~185)
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	_____	Bosch P 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- Ah	_____	24-25
Starting Motor Capacity - V - kW	_____	24-6.0 × 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)	_____	500

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.)	150 (5.91)									
Stroke	mm (in.)	160 (6.30)									
Displacement	liter (in. ³)	33.93 (2071)									

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:4000*1800*1950mm

Weight:6100kg



Dimension:5200*2100*2400mm

Weight:11000kg

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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