



## Genset

Model	JHSL-1900GF
Voltage	400/480V
Frequency&Speed	50HZ&60HZ
Prime Power	1861kW/2327kVA
Standby Power	2048kW/2559kVA

- **Engine: Mitsubishi S16R2-PTAW-E**
- **Alternator: Stamford/Leroy Somer  
/Hengsheng**
- **Controller: DeepSea/SmartGen  
/DEIF/ComAp**

## General Engine Data

ITEM	UNIT	STAND-BY POWER	PRIME POWER	DCP
		50Hz	50Hz	
Engine Speed	rpm	1500	1500	
No. of Cylinders		16		
Bore	mm (in.)	170 (6.69)		
Stroke	mm (in.)	220 (8.66)		
Displacement	liter (in. <sup>3</sup> )	79.9 (4876)		
Brake Horse power without Fan	HP (kW)	3257 (2430)	2961 (2209)	
Brake Mean Effective Pressure without Fan	kgf/cm <sup>2</sup> (MPa) (psi)	24.8 (2.43) (353)	22.5 (2.21) (320)	
Mean Piston Speed	m/s (ft/min)	11.0 (2165)	11.0 (2165)	
Maximum Regenerative Power	HP	204	204	
Absorption Capacity without Fan	(kW)	(152)	(152)	
Intake Air flow	m <sup>3</sup> /min (CFM)	212 (7486)	191 (6744)	
Exhaust Gas Flow	m <sup>3</sup> /min (CFM)	562 (19844)	506 (17867)	
Coolant Flow	liter/min (U.S. GPM)	1650 (436)	1650 (436)	
Coolant Flow to Aircooler (PTAW only)	liter/min (U.S. GPM)	920 (243)	920 (243)	
Oil Flow to External Oil Cooler	liter/min (U.S. GPM)	70 (18)	70 (18)	
Allowable Fan Loss Horse Power	HP (kW)	134 (100)	134 (100)	
Radiated Heat to Ambient	kcal/hr (kJ/hr) (BTU/min)	160810 (673158) (10636)	144825 (606244) (9579)	
Heat Rejection to Coolant	kcal/hr (kJ/hr) (BTU/min)	825492 (3455546) (54597)	743436 (3112056) (49170)	
Heat Rejection to Air Cooler	kcal/hr (kJ/hr) (BTU/min)	594997 (2490684) (39352)	535853 (2243105) (35441)	
Heat Rejection to External Oil Cooler (external oil cooler, mounted on radiator)	kcal/hr (kJ/hr) (BTU/min)	80405 (336579) (5318)	72413 (303124) (4789)	
Heat Rejection to Exhaust	kcal/hr (kJ/hr) (BTU/min)	1609243 (6736363) (106433)	1431612 (5992792) (94685)	
Noise Level (1 m height & distance) (excludes, Intake, Exhaust & Fan)	dB(A)	TBD	TBD	

## GENERAL ENGINE DATA

Type	4-Cycle, Water Cooled	
Aspiration	Turbo-Charged, Aircooler (Fresh Water)	
Cylinder Arrangement	60°V	
No. of Cylinders	16	
Bore mm(in.)	170	(6.69)
Stroke mm(in.)	220	(8.66)
Displacement liter(in <sup>3</sup> )	79.90	(4876)
Compression Ratio	14.0:1	
Dry Weight - Engine only - kg(lb)	7750	(17089)
Wet Weight - Engine only - kg(lb)	8200	(18081)

## 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 & Leak Pipe - mm Hg (in. Hg)	150	(5.9)

## STARTING SYSTEM

Battery Charging Alternator - V-Ah	24-35	
Starting Motor Capacity - V -kW	24-7.5×2	
Maximum Allowable Resistance of Cranking Circuit - m Ω	1.5	
Recommended Minimum Battery Capacity		
At 5°C(41°F) and above - Ah	400	
Below 5°C(41°F) through - 5°C(23°F)	600	

## COOLING SYSTEM

Coolant Capacity of Jacket (Engine Only) - liter (U.S. gal)	157	(41.5)
Coolant Capacity of Air Cooler (Engine Only) - liter (U.S. gal)	33	(8.7)
Maximum External Friction Head at Engine Outlet - kgf/cm <sup>2</sup> (psi)	0.35	(5.0)
Maximum Static Head of Coolant above Crankshaft Center - m(ft)	10	(32.8)
Standard Thermostat (modulating)Range of Jacket- °C(°F)	71~85 (160~185)	
Standard Thermostat (modulating)Range of Air cooler- °C(°F)	42~55 (108~131)	
Maximum Coolant Temperature at Engine Inlet- °C(°F)	75	(167)
Maximum Coolant Temperature at Engine Outlet- °C(°F)	External oil cooler not used	83 (181)
	External oil cooler used	98 (208)
Minimum Coolant Expansion Space - % of System Capacity	10	
Maximum Coolant Temperature at Air cooler Inlet, PTAW type-°C(°F)	45	(113)
(at ambient 25°C)		

## Alternator

Pole No.	4-Pole	<ul style="list-style-type: none"> <li>✧ NEMAMG1.JIANGHAO,and ANSI standards compliance for temperature rise and motor starting.</li> <li>✧ Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.</li> <li>✧ Sustained short-circuit current enabling down stream circuit breakers to trip without collapsing the generator field.</li> <li>✧ Self-ventilated and dripproof construction.</li> </ul>
Exciter Type	Single bearing, Brushless, Self-excited	
Power factor	0.8	
Voltage adjust range	≤5%	
Insulation Grade	H	
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:6000\*2600\*3500mm

Weight:17200kg

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

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