



- **Engine:** MTU 20V4000G83LS
- **Alternator:** Stamford/Leroy Somer /Hengsheng
- **Controller:** DeepSea/SmartGen /DEIF/ComAp

Genset

Model	JHM-2800GF
Voltage	277/480V
Frequency&Speed	60HZ;1800RPM
Genset Prime Power	2800kW/3500kVA
Genset Standby Power	3200kW/4000kVA

Name	20V4000G83LS	Speed [rpm]	1800
Application Group	3G	Nominal power [kW]	3010
Dataset	Ref. 25°C/55°C	Nominal power [bhp]	4036
		Nominal power [kVA]	-
		Nominal power [kWe]	-
		Frequency [Hz]	60

Exhaust Regulations Fuel-consumption optimized;

Reference conditions

No.	Description	Index	Value	Unit
6	Intake air temperature		25	°C
7	Charge-air coolant temperature		55	°C
8	Barometric pressure		1000	mbar
9	Site altitude above sea level		100	m
1	Engine rated speed	A	1800	rpm
2	Reduction gear - Output speed	A	-	rpm
3	Mean piston speed		12.6	m/s
4	Continuous power ISO 3046 (10% overload capability) (design power DIN 6280, ISO 8528)	A	3010	kW
5	Fuel stop power ISO 3046	A	3311	kW
8	Mean effective pressure (MEP) (Continuous power ISO 3046)		21.0	bar
9	Mean effective pressure (MEP) (Fuel stop power ISO 3046)		23.2	bar
24	Number of inlet valves, per cylinder		2	-
25	Number of exhaust valves, per cylinder		2	-
15	Number of turbochargers		6	-
16	Number of L.P. turbochargers		6	-
17	Number of H.P. turbochargers		-	-
18	Number of intercoolers		1	-
19	Number of L.P. intercoolers		1	-

No.	Description	Index	Value	Unit
17	Specific fuel consumption (be) - 100 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	200	g/kWh
18	Specific fuel consumption (be) - 75 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	194	g/kWh
19	Specific fuel consumption (be) - 50 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	204	g/kWh
20	Specific fuel consumption (be) - 25 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	235	g/kWh
21	Specific fuel consumption (be) - FSP (+ 5 %; EN 590; 42.8 MJ/kg)	R	202	g/kWh

6	Number of cylinders		20	-
7	Cylinder configuration: V angle		90	degrees (°)
8	Cylinder configuration: in-line vertical		-	-
10	Bore		170	mm
11	Stroke		210	mm
12	Displacement, cylinder		4.77	liter
13	Displacement, total		95.4	liter
14	Compression ratio		16.4	-

8	Charge-air pressure before cylinder - CP	R	3.4	bar abs
27	Charge-air pressure before cylinder - FSP	R	3.6	bar abs
9	Combustion air volume flow - CP	R	4.1	m³/s
10	Combustion air volume flow - FSP	R	4.3	m³/s
11	Exhaust volume flow (at exhaust temperature) - CP	R	10.2	m³/s
12	Exhaust volume flow (at exhaust temperature) - FSP	R	11.4	m³/s

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.

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

Dimension:8300*2950*2700mm

Weight:20000kg

Fuel Tank Capacity:1000-3000L

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