



- **Engine:** MTU 20V4000G83S
- **Alternator:** Stamford/Leroy Somer /Hengsheng
- **Controller:** DeepSea/SmartGen /DEIF/ComAp

## Genset

Model	JHM-2500GF
Voltage	277/480V
Frequency&Speed	60HZ;1800RPM
Genset Prime Power	2550kW/3188kVA
Genset Standby Power	2800kW/3500kVA

<b>Name</b>	20V4000G83S	<b>Speed [rpm]</b>	1800
<b>Application Group</b>	3G	<b>Nominal power [kW]</b>	2740
<b>Dataset</b>	Ref. 25°C/55°C	<b>Nominal power [bhp]</b>	3674
		<b>Nominal power [kVA]</b>	-
		<b>Nominal power [kWel]</b>	-
		<b>Frequency [Hz]</b>	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	2740	kW
5	Fuel stop power ISO 3046	A	3014	kW
8	Mean effective pressure (MEP) (Continuous power ISO 3046)		19.2	bar
9	Mean effective pressure (MEP) (Fuel stop power ISO 3046)		21.1	bar

1	Intake air depression (new filter)	A	15	mbar
2	Intake air depression, max.	L	50	mbar
51	Exhaust overpressure (total pressure against atmosphere)	A	30	mbar
52	Exhaust overpressure, max. (total pressure against atmosphere)	L	85	mbar
5	Fuel temperature at fuel feed connection	R	25	°C
9	Fuel temperature at fuel feed connection, max. (w/o power reduction)	L	55	°C

No.	Description	Index	Value	Unit
17	Specific fuel consumption (be) - 100 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	195	g/kWh
18	Specific fuel consumption (be) - 75 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	196	g/kWh
19	Specific fuel consumption (be) - 50 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	210	g/kWh
20	Specific fuel consumption (be) - 25 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	244	g/kWh
21	Specific fuel consumption (be) - FSP (+ 5 %; EN 590; 42.8 MJ/kg)	R	200	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	3.1	bar abs
27	Charge-air pressure before cylinder - FSP	R	3.4	bar abs
9	Combustion air volume flow - CP	R	3.8	m³/s
10	Combustion air volume flow - FSP	R	4.1	m³/s
11	Exhaust volume flow (at exhaust temperature) - CP	R	9.1	m³/s
12	Exhaust volume flow (at exhaust temperature) - FSP	R	10.3	m³/s

## Alternator

Pole No.	4-Pole
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.

- ✧ NEMAMG1.JIANGHAO,and ANSI standards compliance for temperature rise and motor starting.
- ✧ Sustained short-circuit current of up to 300% of the rated current for up to 10 seconds.
- ✧ Sustained short-circuit current enabling down stream circuit breakers to trip without collapsing the generator field.
- ✧ Self-ventilated and dripproof construction.

## 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:7780\*2920\*2950mm

Weight:20000kg

Fuel Tank Capacity:1000-3000L

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