



➤ **Engine: MTU 20V4000G23F**

➤ **Alternator: Stamford/Leroy Somer
/Hengsheng**

➤ **Controller: DeepSea/SmartGen
/DEIF/ComAp**

Genset

Model	JHM5-2000GF
Voltage	230/400V
Frequency&Speed	50HZ;1500RPM
Genset Prime Power	2000kW/2500kVA
Genset Standby Power	2200kW/2750kVA

Name 20V4000G23F
Application Group 3G
Dataset Ref. 25°C/45°C

Speed [rpm] 1500
Nominal power [kW] 2200
Nominal power [bhp] 2950
Nominal power [kVA] -
Nominal power [kWel] -
Frequency [Hz] 50

Exhaust Regulations China III NRMM compliant (stationary);

Reference conditions

No.	Description	Index	Value	Unit
6	Intake air temperature		25	°C
7	Charge-air coolant temperature		45	°C
8	Barometric pressure		1000	mbar
9	Site altitude above sea level		100	m

No.	Description	Index	Value	Unit
1	Engine rated speed	A	1500	rpm
2	Reduction gear - Output speed	A	-	rpm
3	Mean piston speed		10.5	m/s
4	Continuous power ISO 3046 (10% overload capability) (design power DIN 6280, ISO 8528)	A	2200	kW
5	Fuel stop power ISO 3046	A	2420	kW
8	Mean effective pressure (MEP) (Continuous power ISO 3046)		18.5	bar
9	Mean effective pressure (MEP) (Fuel stop power ISO 3046)		20.3	bar

No.	Description	Index	Value	Unit
17	Coolant temperature (at engine outlet to cooling equipment)	A	100	°C
57	Coolant temperature differential after/before engine, from	R	7	K
58	Coolant temperature differential after/before engine, to	R	9	K
23	Coolant temperature differential after/before engine	L	11	K

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	-

No.	Description	Index	Value	Unit
17	Specific fuel consumption (be) - 100 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	199	g/kWh
18	Specific fuel consumption (be) - 75 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	209	g/kWh
19	Specific fuel consumption (be) - 50 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	220	g/kWh
20	Specific fuel consumption (be) - 25 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	236	g/kWh
21	Specific fuel consumption (be) - FSP (+ 5 %; EN 590; 42.8 MJ/kg)	R	198	g/kWh
73	No-load fuel consumption	R	35	kg/h
4335	Lube oil consumption after 24h runtime - rated power (be = Specific fuel consumption)	A	0.25	% of be
3453	Lube oil consumption in relation to the fuel consumption, max.	L	0.6	%

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 drip-proof 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:6530*2755*3040mm

Weight:19000kg

Fuel Tank Capacity:1000-3000L

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