



➤ **Engine: MTU 16V4000G23F**

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

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

Genset

Model	JHM5-1600GF
Voltage	230/400V
Frequency&Speed	50HZ;1500RPM
Genset Prime Power	1450kW/1813kVA
Genset Standby Power	1650kW/2063kVA

Name	16V4000G23F	Speed [rpm]	1500
Application Group	3G	Nominal power [kW]	1798
Dataset	Ref. 25°C/45°C	Nominal power [bhp]	2411
		Nominal power [kVA]	-
		Nominal power [kWe]	-
		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	1798	kW
5	Fuel stop power ISO 3046	A	1978	kW
8	Mean effective pressure (MEP) (Continuous power ISO 3046)		18.9	bar
9	Mean effective pressure (MEP) (Fuel stop power ISO 3046)		20.7	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

No.	Description	Index	Value	Unit
1	Naturally aspirated engine		-	-
2	Engine with exhaust turbocharger (ETC)		-	-
3	Engine with exhaust turbocharger (ETC) and intercooler		X	-
4	Exhaust piping, non-cooled		X	-
5	Exhaust piping, liquid-cooled		-	-
33	Working method: four-cycle, diesel, single-acting		X	-
34	Combustion method: direct injection		X	-
36	Cooling system: conditioned water		X	-
37	Direction of rotation: c.c.w. (facing driving end)		X	-
6	Number of cylinders		16	-
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		76.3	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	200	g/kWh
18	Specific fuel consumption (be) - 75 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	204	g/kWh
19	Specific fuel consumption (be) - 50 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	212	g/kWh
20	Specific fuel consumption (be) - 25 % CP (+ 5 %; EN 590; 42.8 MJ/kg)	R	237	g/kWh
21	Specific fuel consumption (be) - FSP (+ 5 %; EN 590; 42.8 MJ/kg)	R	200	g/kWh

Alternator

Pole No.	4-Pole	<ul style="list-style-type: none"> ✧ 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.
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.

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



Dimension:6500*2260*2720mm
Weight:17000kg



Dimension:12000*2400*2900mm
Weight:20800kg
Fuel Tank Capacity:1000-3000L

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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