JIANGHAO GENERATOR

Genset

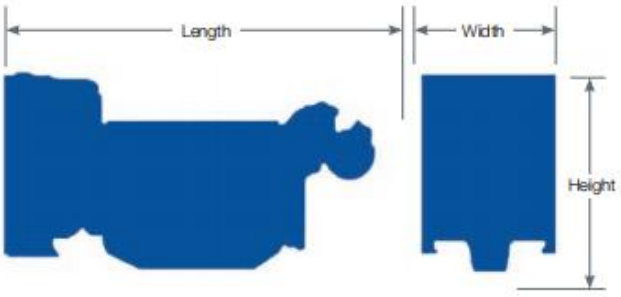
Model	JHP5-720GF
Voltage	230/400V
Frequency&Speed	50HZ;1500RPM
Prime Power	720kW/900kVA
Standby Power	802kW/1002kVA

- **Engine: Perkins 4008TAG1A**
- **Alternator:Stamford/Leroy Somer /Hengsheng**
- **Controller:DeepSea/SmartGen /DEIF/ComAp**

The Perkins® 4000 Series family of 6, 8, 12 and 16 cylinder diesel engines was designed in advance of today's uncompromising demands within the power generation industry and includes superior performance and reliability.

The 4008TAG1A is a turbocharged and air-to-air charge cooled, 8 cylinder diesel engine offered with either temperate or tropical cooling. Its premium features and design provide economic and durable operation as well as an exceptional power to weight ratio, excellent load acceptance and improved gaseous emissions, plus the overall performance and reliability characteristics essential to the power generation market.

Specification		
Number of cylinders	8 vertical in-line	
Bore and stroke	160 x 190 mm	6.3 x 7.5 in
Displacement	30.561 litres	1864 in³
Aspiration	Turbocharged and air-to-air charge cooled	
Cycle	4 stroke	
Combustion system	Direct injection	
Compression ratio	13.6:1	
Rotation	Anti-clockwise, viewed from flywheel end	
Total lubricating capacity	153 litres	40.4 US gal
Cooling system	Water-cooled	
Total coolant capacity	162 litres	42.8 US gals



Engine package weights and dimensions				
	Temperate cooling		Tropical cooling	
Length	3852 mm	151 in	3711 mm	146 in
Width	2046 mm	80.5 in	2046 mm	80.5 in
Height	2067 mm	81.4 in	2146 mm	84.5 in
Weight (dry)	4270 kg*	9413 lb	4320 kg*	9523 lb

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Speed rpm Radiator type	Type of operation	Typical generator output (Net)		Engine power			
				Gross		Net	
		kVA	kWe	kWm	hp	kWm	hp
1500 Tropical	Baseload power	720	576	644	864	602	807
	Prime power	911	728	805	1080	767	1029
	Standby (maximum)	1002	802	882	1183	844	1132

The above ratings represent the engine performance capabilities guaranteed within plus or minus 3% at the reference conditions equivalent to those specified in ISO 8528/1, ISO 3046/1, BS5514/1.

Rating conditions: 25°C air inlet temperature, barometric pressure 100 kPa, relative humidity 30%. Please consult your distributor or the factory for ratings in other ambient conditions. Note: For full ratings please refer to Perkins Engines Company Limited. All electrical ratings are based on an average alternator efficiency and a power factor of 0.8. Full specification: BS2869: Class A1 + A2 or ASTM D975 No 2D.

Rating definitions
Baseload power: Power available for continuous full load operation. No overload is permitted. Prime power: Power available for variable load with an average load factor not exceeding 80% of the prime power rating in any 24 hour period. Overload of 10% permitted for one hour in every twelve hours operation. Standby (maximum): Power available at variable load in the event of a main power network failure up to a maximum of 500 hours per year. No overload is permitted.

Percent of prime power	Fuel consumption for temperate and tropical at 1500 rpm	
	g/kWh	l/hr
Standby (maximum)	210	218
Prime power	206	195
Continuous baseload power	203	154
75%	201	143
50%	207	98
25%	217	52

Fuel system
- Direct fuel injection system with fuel lift pump
- Digital governing to ISO 8528-5 Class G2 with isochronous capability
- Full-flow spin-on fuel oil filters

Lubrication system
- Wet full aluminium sump with filler and dipstick
- Full-flow spin-on oil filters

Cooling system
- Twin thermostats
- System designed for ambient temperatures of up to 50°C

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

- ✧ NEMAMG1.JIANGHAO,and ANSl 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.
- ✧ 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.

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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.

Dimension:4800*1900*2300mm

Weight:7700kg

Dimension:5800*2300*2500mm

Weight:11600kg

Fuel Tank Capacity:1200L

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

Jiangsu Jianghao Generator Co.,Ltd

Address: No.1 Xixu Road, Medical High-tech Zone, Taizhou city, Jiangsu, China

Contact Person: Anthony Feng

Email: jhfsale@jhgenerator.com

WhatsAPP: +86 18652649673