



Genset

Model	JHY5-1000GF
Voltage	230/400V
Frequency&Speed	50HZ 1500RPM
Prime Power	1008kW/1260kVA
Standby Power	1107kW/1384kVA

General Engine Data

Main technical parameters

Number of cylinders	12
Configuration	V, 90°
Aspiration	Turbocharged, water-air intercooled
Combustion system	Direct injection
Compression ratio	14:1
Bore	152 mm
Stroke	180 mm
Displacement	39.2 L
Rotation	Counterclockwise (viewed from the flywheel end)
Firing order	A(1)-B(2)-A(5)-B(4)-A(3)-B(1)-A(6)-B(5)-A(2)-B(3)-A(4)-B(6) Viewed from the back end: numbered starting from 1, with A for left side, and B for right side.
Dry weight (excluding radiator)	4,570 kg
Wet weight (excluding radiator)	4,850 kg

Overall dimensions

Length (from the fan to the flywheel housing)	2,240 mm
Width	1,700 mm
Height	1,950mm

Gravity center coordinate (dry engine, with the center of the end face of the flywheel shell as the origin)

Fuel consumption

Note: The density of diesel is 0.835 kg/L.

Load condition	1,500 r/min	
	g/(kW·h)	L/h
Standby	213.3	285.6
Prime	208.2	253.3
75% prime	223.4	203.9
50% prime	236.1	143.6

- Engine: Yuchai YC12VTD1680-D30
- Alternator: Stamford/Leroy Somer /Hengsheng
- Controller: DeepSea/SmartGen /DEIF/ComAp

From the rear end face of the flywheel	867.1mm
Height relative to the center of the crankshaft	224.5 mm
Centerline deviation relative to the crankshaft center gravity	-0.9mm

Shafting rotation inertia

Engine	13.02 kg·m ²
Flywheel	9.188 kg·m ²

Performance rating

Speed drop	0.3%
Speed fluctuation rate	0.5%
Speed governing type	Electronic control

Test conditions

Ambient temperature	25℃
Atmospheric pressure	100 kPa
Relative humidity	30%
Max. operating intake resistance	≤5 kPa
Exhaust backpressure limit	≤10 kPa
Fuel temperature (fuel inlet pump)	38±2℃

Note: Unless otherwise specified, the data of this list of parameters are measured under these test conditions. If the engine is used under other test conditions other than those described above, proper adjustment shall be made according to the actual environment. For specific details, please contact

Electric system

Type	Negative ground
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Charger

Voltage	28V
Output current	35A

Starter

Type	Electric start, 2
Voltage	24V
Power	7.5 kW
Number of teeth of flywheel	153
Number of teeth of starter	10

Cooling system

Total coolant capacity	419 L
Engine coolant capacity: High temperature: 100 L, low temperature: 21 L	
Radiator coolant capacity: High temperature: 134 L, low temperature: 124 L	
Pipeline coolant capacity	40 L
Max. water outlet temperature of engine (high temperature water passage)	≤97 °C
Max. outlet temperature of engine (low temperature water passage)	≤70 °C
Pressure difference between inlet and outlet of water pump (max. hydrostatic head)	150 kPa
Thermostat operation temperature	
Initial opening temperature (75±2) °C, full opening temperature (85±2) °C	
Max. water temperature rise:	
- Standby power	9 °C
- Prime power	8 °C

High temperature radiator

Cooling area	485 m ²
Dry weight	860 kg
Material	Aluminum
Number of lines	1 line
Density of core	cooling fins/inch
Width of core	2055 mm
Height of core	2166 mm

Material	Nylon
Number of blades	8
Blowing/suction	Blowing type

Intake system

Air cleaner

Max. intake resistance:	
- Clean air cleaner	3.5 kPa
- Dirty air cleaner	5 kPa
- Air cleaner type	Dry paper element

Inclination

Transverse inclination/longitudinal inclination (oil sump capacity: 160 L)	5°/5°
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Fuel system

Injection system	High pressure common rail
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Fuel injector

Type	Mechanical control injector, multi-hole injection
Fuel injector opening pressure	Electronically-controlled

Fuel pump

Drive mode	Gear drive
Fuel delivery pump flow @ 1,500 rpm.	2×9 L/min
Max. fuel inlet temperature limit	70 °C
Allowed fuel inlet pressure (absolute pressure) at the front end of fuel delivery pump	(50~100) kPa

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 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.
- ✧ 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.



Dimension:5000*2000*2200mm

Weight:9000kg



Dimension:6000*2400*2400mm

Weight:11300kg

Fuel Tank Capacity:1000-3000L

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

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