

# JIANGHAO GENERATOR

Genset	
Model	JHY5-1600GF
Voltage	230/400V
Frequency&Speed	50HZ 1500RPM
Prime Power	1625kW/2031kVA
Standby Power	1787kW/2233kVA

# **General Engine Data**

#### Main technical parameters

Number of cylinders
Configuration
Aspiration Turbocharged, water-air intercooled
Combustion system Direct injection
Compression ratio
Bore
Stroke
Displacement
Rotation Counterclockwise (viewed from the flywheel end)
Firing order:

A1-B6-B4-A6-A4-B7-A3-B8-B2-A8-A2-B5-B3-A5-B1-A7 Viewed from the back end: numbered starting from 1, with A for left side, and B for right side.

Dry weight (excluding	radiator)	
Wet weight (excluding	radiator)6050 kg	

#### **Overall dimensions**

Length (from the fan to the flywheel housing)	2,800 mm
Width	1,700 mm

Height	950mm
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Gravity center coordinate (dry engine, with the center of the end face of the flywheel shell as the origin)

### Fuel consumption

Note: The diesel density is 0.835 kg/L.

	1500 r/min			
Conditions	g/ (kW·h)	L/h		
Standby power	205. 9	490.4		
Prime power	199.9	432.5		
75% of prime power	195. 5	316. 2		
50% of prime power	199.5	216.2		

- Engine: Yuchai YC16VTD2700-D30
- Alternator:Stamford/Leroy Somer
  /Hengsheng
- Controller:DeepSea/SmartGen

# /DEIF/ComAp

From the rear end face of the flywheel	1043mm
Height relative to the center of the cranks haft	172 mm
Centerline deviation relative to the crankshaft center -11mm	gravity

## Shafting rotation inertia

Engine
Flywheel
Performance rating
Speed drop0.3%
Speed fluctuation rate
Speed governing typeElectronic control
Test conditions
Ambient temperature
Atmospheric pressure
Relative humidity
Max. operating intake resistance
Exhaust backpressure limit≤10 kPa
Fuel temperature (fuel inlet pump)

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 Yuchai technical service department.

## Lubricating system

Total oil capacity (dry engine)
Total oil capacity (oil change)
Oil sump capacity - low level/high level 176/280 L
Max. oil temperature (oil sump)
Operating oil temperature (oil sump) (90-115) °C
Oil pressure at idle speed
Oil pressure at rated speed (250~500) kPa
Engine oil-fuel consumption ratio \$\$0.3%

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# Cooling system

Total coolant capacity			4 L	Material
Engine coolant capacity.High temperature: temperature: 30 L	140	L,	low	Number of blades
	100	122	law	Blowing/suction
Radiator coolant capacityHigh temperature: temperature: 162 L	182	ι,	low	Intake system
Pipeline coolant capacity		4	OL	Air cleaner
Max. water outlet temperature of engine (hi water passage)	÷			Max. intake resistance:
				- Clean air cleaner
Max. inlet temperature of engine (low tem passage)				- Dirty air cleaner5 kPa
Pressure difference between inlet and outlet	of wa	ter p	oump	- Air cleaner typeDry paper element
(max. hydrostatic head)	1	150 k	Pa	Inclination
Thermostat operation temperature				
Initial opening temperature (75±2)°C, full open	ing ter	nper	ature	Transverse inclination/longitudinal indination (oil sump capacity
(85±2)°C				280 L)
Max. water temperature rise:				Fuel system
- Standby power			13°C	Injection system
- Prime power			12°C	Fuel injector
High temperature radiator				Type Electronically-controlled injector, multi-hole injection
Cooling area		665	m <sup>2</sup>	Fuel injector opening pressureElectronically-controlled
Dry weight		. 920	kg	Fuel pump
Material	Al	umin	um	Drive modeGear drive
Number of lines		/	ine	Fuel delivery pump flow @ 1,500 rpm
Density of coreco	ooling f	ins/ir	h	Max. fuel inlet temperature limit
Width of core	22	220 n	nm	Allowed fuel inlet pressure (absolute pressure) at the front end
Height of core		200 n	nm	of fuel delivery pump(50~100) kPa
			Pa	Max. fuel return pressure of fuel pump

## Alternator

Pole No.	4-Pole
Exciter Type	Single bearing, Brushless, Self-excited
Power factor	0.8
Voltage adjust range	$\leq 5\%$
Insulation Grade	Н
Protection Grade	IP23/22
Phase / wire	3 phase 4 wires

- ♦ NEMAMG1.JIANGHAO, and ANSI standards compliance for temperature rise and motor starting.
- $\diamond$  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.
- $\diamond \quad \text{Self-ventilated and dripproof construction.}$
- ♦ 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:5500\*2300\*2530mm Weight:13000kg



Dimension:12000\*2400\*2900mm Weight:16800kg 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

## Jiangsu Jianghao Generator Co.,Ltd

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