

JIANGHAO GENERATOR

Genset	
Model	JHY5-2800GF
Voltage	230/400V
Frequency&Speed	50HZ 1500RPM
Prime Power	2709kW/3386kVA
Standby Power	2980kW/3725kVA

General Engine Data

Main technical parameters

Number of cylinders
Configuration
Aspiration Turbocharged, water-air intercooled
Combustion system Direct injection
Compression ratio
Bore
Stroke
Displacement
RotationCounterclockwise (viewed from the flywheel end)
Firing order (viewed from the belt pulley end) left 1—right 1-left 6—right 6-left 2—right 2-left 5—right 5-left 8—right 8-left 3-right 3-left 7-right 7-left 4-right 4
Dry weight (without radiator)
Wet weight (without radiator) 13000 kg

Overall dimensions

Length (from front end of radiator to rear end of air filter)

	m
Width	m
Height (with radiator and mounting support)	m

Centre of gravity (dry engine, with the center of the rear end face of the flywheel shell as the origin)

From the rear	end face of the	flywheel1652 mm	
Height relative	to the center of	the crankshaft	

Fuel consumption

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

	1,500 r/min	
Load condition	g/(kW∙h)	L/h
Standby	214,1	849.0
Prime	208.6	752.0
75% prime	197.5	533.8
50% prime	202.4	363.8

- Engine: Yuchai YC16VC4500-D30
- Alternator:Stamford/Leroy Somer
 /Hengsheng
- Controller:DeepSea/SmartGen

/DEIF/ComAp

Centerline deviation relative to the crankshaft center gravity

Moments of rotation inertia

Engine	.44.42 kg·m ²
Flywheel	.29.36 kg·m ²

Performance rating

Speed droop	1%
Steady state speed band	.5 %

Test conditions

Ambient temperature	
Atmospheric pressure	100 kPa
Relative humidity	
Max. operating intake resistance	≤3.7 kPa
Exhaust backpressure limit	≤10 kPa
Fuel temperature (fuel inlet pump)	38±2 °C

Attention: Unless otherwise explicitly specified, all parameter data are measured under standard test condition as above. If the engine is operated under other test conditions rather than the test condition above, it shall be adjusted properly according to the actual environment. Contact the Yuchai Technical Service Department for details.

Electric system

Туре	Negative ground
Starter	
Туре	Electric start, 2
Voltage	
Power	
Number of teeth of flywheel	
Number of teeth of starter	11
Charger	
Voltage	
Electric current	55 A

JIANGHAO
GENERATOR

Cooling system

Total coolant capacity	<mark>1030</mark> L
Engine coolant capacity	<mark>45</mark> 0 L
Radiator coolant capacity	
Pipeline coolant capacity	40 L
Engine max. outlet coolant temperature(high temperature). ≤98°C
Engine max. inlet coolant temperature(lo	w temperature) ≤65°C
Pressure difference between inlet and ou	tlet of water pump
(max. hydrostatic head)	
Thermostat operation temperature	
Initial open	(75±2) °C
full open	
Max. coolant temperature rise(high temp	erature):
-Standby power	
-Prime power	
Max. coolant temperature rise(low temperature	erature):
-Standby power	9.9°C
-Prime power	
Radiator	
Cooling area(high temperature)	
Cooling area(low temperature)	
Dry weight	
Core material	Aluminum
Width of core	
Height of core	
Min. pressure of pressure cap	(70±5)kPa
Coolant resistance limit	

Intake system

Air filter

Airtilter	
Max. intake resistance:	
-Clean air filter	
-Dirty air filter	
-Air filter typedry-type, filter ca	rtridge of hardware cloth
Inclination	
Transverse inclination/longitudinal engine oil sump: 400 L)	
Fuel system	
Injection systemHig	h pressure common rail
Injector	
TypeElectronic	cally controlled, with multi
Injector opening pressure	Electronically contr
Fuel pump	
Drive mode	Gear driven
Fuel delivery pump flow @1,500 rpm	
Max. fuel inlet temperature limit	
Allowed fuel inlet pressure of front en (absolute pressure)	

Pre- filter	
Rated flow	40 L/min
Max. original resistance	15kPa
Water separation efficiency at the rated flow	

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.
- $\diamond \quad \text{Self-ventilated and dripproof construction.}$
- \diamond 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:9000*2950*3500mm

Weight:27000kg

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

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

Contact Person: Anthony Feng Email: <u>jhfsale@jhgenerator.com</u> WhatsAPP: +86 18652649673



