

JIANGHAO GENERATOR

Genset	
Model	JHY-108GF
Voltage	277/480V
Frequency&Speed	60HZ 1800RPM
Prime Power	108kW/135kVA
Standby Power	119kW/149kVA

General Engine Data

Main technical parameters

Number of cylinders
ConfigurationVertical, in-line
Aspiration Turbocharged, air-air intercooled
Combustion system Direct injection
Compression ratio
Bore
Stroke 115 mm
Displacement
RotationCounterclockwise (viewed from the flywheel end)
Firing order (viewed from the belt pulley end)1-3-4-2
Dry weight (without radiator)
Wet weight (without radiator)

Overall dimensions

Length	(from	front	end	of	radiator	to	rear	end	of	air	filter)	
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	.1403 mm
Width	
Height (with radiator and mounting support)	.1003 mm

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

Fuel consumption

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

1	1800	r/min
Load condition	g/(kW·h)	L/h
Standby	219	34.6
Prime	220	31.6
75% prime	236	25.4
50% prime	249	17.9

- Engine: Yuchai YC4D180-D33
- Alternator:Stamford/Leroy Somer /Hengsheng

Controller:DeepSea/SmartGen

/DEIF/ComAp

Centerline deviation relative to the crankshaft center gravity

Moments of rotation inertia

Engine	68 kg·m²
Flywheel	91 kg·m²

Performance rating

Speed droop	0.5 %
Steady state speed band	0.5 %

Test conditions

Ambient temperature	25 °C
Atmospheric pressure	
Relative humidity	
Max. operating intake resistance	≤5 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
Charger	
Voltage	
Output current	
Starter	
Type	Electric start, 1
Voltage	
Power	
Number of teeth of flywheel	<mark>130</mark>
Number of teeth of starter	<mark>11</mark>

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Cooling system

Total coolant capacity	
Engine coolant capacity	1 <mark>5</mark> L
Radiator coolant capacity	<mark>12</mark> L
Pipeline coolant capacity	3L
Engine max. outlet coolant temperature	
Thermostat operation temperature	
Initial open	(80±2)°C
full open	
Max. coolant temperature rise:	
-Standby power	8°C
-Prime power	
Radiator	
Cooling area	
Radiator intercooler dry weight	
Core material	Aluminum
Number of lines	
Density of core	oling fins/inch
Width of core	680 mm
Height of core	600 mm
Min. pressure of pressure cap	(50±5)kPa
Coolant resistance limit	15 kPa
Intercooler	
Cooling area	18.5 m ²
Core material	Aluminum
Number of lines	l
Width of core	F70

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

Intake system

Air filter

Air filter
Max. intake resistance:
-Clean air filter 2.5 kP
-Dirty air filter
-Air filter typeDry-type, filter cartridge of paper
Inclination
Transverse inclination (volume of engine oil sump: 11 L)
±10
Longitudinal inclination (volume of engine oil sump: 11 L)
±10
Fuel system
Injection systemHigh pressure common rail
Injector
TypeElectronically controlled, with multiple jets
Injector opening pressureElectronically controlled
Fuel pump
Drive mode Gear drive
Fuel delivery pump flow @1800 rpm
Max. fuel inlet temperature limit
Allowed fuel inlet pressure of front end of fuel delivery pump (absolute pressure)
Maximum fuel return pressure of fuel pump
Fuel filter
Pre- filter
Rated flow
Max. original resistance ≤ 7 kP
Water separation efficiency at the rated flow≥95 %

- 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:2300*900*1500mm Weight:1250kg



Dimension:3300*1300*1800mm Weight:2350kg Fuel Tank Capacity:360L 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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