



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

- > Engine: Yuchai YC4D180-D33
- > Alternator:Stamford/Leroy Somer /Hengsheng
- Controller:DeepSea/SmartGen /DEIF/ComAp

General Engine Data

Main technical parameters
Number of cylinders 4
ConfigurationVertical, in-line
Aspiration Turbocharged, air-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)1-3-4-2
Dry weight (without radiator)450 kg
Wet weight (without radiator)
Overall dimensions
Length (from front end of radiator to rear end of air filter)
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.

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

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Centerline deviation relative to the crankshaft center gravity
-9 mm
Moments of rotation inertia
Engine
Flywheel
Performance rating
Speed droop≤0.5 %
Steady state speed band≤0.5 %
Test conditions
Ambient temperature
Atmospheric pressure
Relative humidity30 %
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.

Electric system

details.

Type	Negative ground
Charger	
Voltage	28V
Output current	55A
Starter	
Type	Electric start, 1
Voltage	
Power	5 kW
Number of teeth of flywheel	130
Number of teeth of starter	

Contact the Yuchai Technical Service Department for



Cooling system

occurring system	
Total coolant capacity	30L
Engine coolant capacity	15L
Radiator coolant capacity	12L
Pipeline coolant capacity	3L
Engine max. outlet coolant temperature.	97°C
Thermostat operation temperature	
Initial open	(80±2)°C
full open	90℃
Max. coolant temperature rise:	
-Standby power	თ8
-Prime power	7°C
Radiator	
Cooling area	34.2m²
Radiator intercooler dry weight	
Core material	Aluminum
Number of lines	
Density of core	13 cooling 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 m²
Core material	
Number of lines	J
Width of core	570 mm
Height of core	530 mm

Alternator

Pole No.	4-Pole
Exciter Type	Single bearing, Brushless,
	Self-excited
Power factor	0.8
Voltage adjust range	≦ 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 kPa
-Dirty air filter	5 kPa
-Air filter typeDry-type, filter cartri	idge of paper
Inclination	
Transverse inclination (volume of engine oil sun	np: 11 L)
(*************************************	±10°
Longitudinal inclination (volume of engine oil su	mp: 11 L)
	±10°
Fuel system	
Injection systemHigh pressure	common rail
Injector	
TypeElectronically controlled, with	n multiple jets
Injector opening pressureElectronica	ally controlled
Fuel pump	
Drive mode	Gear driven
Fuel delivery pump flow @1800 rpm	1.2 L/min
Max. fuel inlet temperature limit	45 °C
Allowed fuel inlet pressure of front end of fuel d (absolute pressure)	
Maximum fuel return pressure of fuel pump	20 kPa
Fuel filter	
Pre- filter	
Rated flow	5 L/min
Max. original resistance	

NEMAMG1.JIANGHAO, and ANSI standards compliance for temperature rise and motor starting.

Water separation efficiency at the rated flow≥95 %

- 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

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