



Genset	
Model	JHY-93GF
Voltage	277/480V
Frequency&Speed	60HZ 1800RPM
Prime Power	93kW/116kVA
Standby Power	102kW/128kVA

- > Engine: Yuchai YC4D155-D33
- > Alternator:Stamford/Leroy Somer /Hengsheng
- Controller:DeepSea/SmartGen/DEIF/ComAp

General Engine Data

Main technical parameters

Number of cylinders4
Configuration
AspirationTurbocharged, 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)
Wet weight (without radiator)

Overall dimensions

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

1	
Width	
Height (with radiator and mounting support)	003 mm

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 flywheel	.387 mm
Height relative to the center of the crankshaft	.140 mm

Fuel consumption

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

	1800 r/min		
Load condition	g/(kW·h)	L/h	
Standby	230	28.9	
Prime	235	26.7	
75% prime	247	20.0	
50% prime	253	14.5	

Centerline de	viation relative	to the	crankshaft	center	gravity

Moments of rotation inertia

Engine	1.068	kg·m²
Flywheel	0.91	kg·m²

Performance rating

Speed droop	≤0.5	%
Steady state speed band	≤0.5	%

Test conditions

rest 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. Contact the Yuchai Technical Service Department for details.

Electric system

Туре	Negative ground
Charger	
Voltage	28V
Output current	55A
Starter	
Туре	Electric start, 1
Voltage	24V
Power	5 kW
Number of teeth of flywheel	130
Number of teeth of starter	11



Cooling system

Total coolant capacity	30L
Engine coolant capacity	
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	8°C
-Prime power	7°C
Radiator	
Cooling area	34.2m²
Radiator intercooler dry weight	70.5kg
Core material	
Number of lines	
Density of core1	3 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 m ²
Core material	Aluminum
Number of lines	
Width of core	
Height of core	530 mn
Air resistance limit	12.8 kPa

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

All little
Max. intake resistance:
-Clean air filter
-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 pressure Electronically controlled
Fuel pump
Drive mode
Fuel delivery pump flow @1800 rpm 1.2 L/mir
Max. fuel inlet temperature limit45 %
Allowed fuel inlet pressure of front end of fuel delivery pump (absolute pressure)(35~100) kPa
Maximum fuel return pressure of fuel pump20 kPa
Fuel filter
Pre- filter
Rated flow
Max. original resistance ≤ 7 kPa
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:2200*850*1200mm Weight:1000kg



Dimension:3300*1300*1800mm Weight:2100kg 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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