

JIANGHAO GENERATOR

Genset	
Model	JHY-170GF
Voltage	277/480V
Frequency&Speed	60HZ 1800RPM
Prime Power	171kW/214kVA
Standby Power	188kW/235kVA

General Engine Data

Main technical parameters

Number of cylinders
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)1-5-3-6-2-4
Dry weight (without radiator)725 kg
Wet weight (without radiator)

Overall dimensions

Length (from front end of radiator to rear end of a	ir filter)
	<mark>1740 mm</mark>
Width	960 mm
Height (with radiator and mounting support)	1160 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	589 mm
Height relative to the center of the crankshaft	215mm

Fuel consumption

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

	1800 #min	
Load condition	g/(kW∙h)	L/h
Standby	218.9	54.8
Prime	223.8	50.9
75% prime	232.7	39.7
50% prime	242.2	27.6

- Engine: Yuchai YC6A285-D32
- Alternator:Stamford/Leroy Somer

/Hengsheng

Controller:DeepSea/SmartGen

/DEIF/ComAp

Centerline deviation relative to the crankshaft center gravity

-29.4 mm

Moments of rotation inertia

Engine	.1.9 kg·m ²
Flywheel	.1.5 kg·m ²

Performance rating

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

Test conditions

Ambient temperature	
Atmospheric pressure	
Relative humidity	30 %
Max. operating intake resistance	≤5 kPa
Exhaust backpressure limit	. ≤10 kPa
Fuel temperature (fuel inlet pump)	

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	<mark>35A/6</mark> 5A
Starter	
Туре	Electric start, 1
Voltage	24V/12V
Power	6 kW/5.5kW
Number of teeth of flywheel	110
Number of teeth of starter	



Cooling system

Total coolant capacity	
Engine coolant capacity	20.66 L
Radiator coolant capacity	
Pipeline coolant capacity	4 L
Engine max. outlet coolant temperatu	re
Pressure difference between inlet and	d outlet of water pump
(max. hydrostatic head)	
Thermostat operation temperature	
Initial open	(70±2)°C
full open	
Max. coolant temperature rise:	
-Standby power	
-Prime power	
Radiator	
Cooling area	
Dry weight	
Core material	
Number of lines	
Density of core	
Width of core	
Height of core	
Min. pressure of pressure cap	(50±5)kPa
Coolant resistance limit	
Intercooler	
Cooling area	
Core material	
Number of lines	
Density of core	
Width of core	
Height of core	
Air resistance limit	

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

Airfilter	
Max. intake resistance:	
-Clean air filter	
-Dirty air filter	
-Air filter typeDry-type,	filter cartridge of paper
Inclination	
Transverse inclination/longitudinal in engine oil sump: 20 L)	nclination (volume of .10°/ 10°
Fuel system	
Injection systemHigh	pressure common rail
Injector	
Type Electronically contr	olled, with multiple jets
Injector opening pressureE	Electronically controlled
Fuel pump	
Drive mode	Gear driver
Fuel delivery pump flow @1800 rpm	
Max. fuel inlet temperature limit	
Allowed fuel inlet pressure of front en (absolute pressure)	
Maximum fuel return pressure of fuel p	pump20 kPa
Fuel filter	
Pre- filter	
Rated flow	
Max. original resistance	10 kPa
Water separation efficiency at the rate	d flow
Filter efficiency:	
For particles of 25 µm	
For particles of 10 µm	
Fine- filter	
Rated flow	
Max. original resistance	

- 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:2500*1200*1600mm Weight:2300kg



Dimension:3600*1600*1900mm Weight:3500kg Fuel Tank Capacity:550L 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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