

JIANGHAO GENERATOR

Genset	
Model	JHY5-400GF
Voltage	230/400V
Frequency&Speed	50HZ 1500RPM
Prime Power	397kW/496kVA
Standby Power	437kW/546kVA

General Engine Data

Main technical parameters

Number of cylinders
ConfigurationVertical, in-line
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)
Wet weight (without radiator) 2078 kg

Overall dimensions

Length (from	front end of radiator	to rear end of air	tilter)
			2488 mm

Width	.1240 mm
Height (with radiator and mounting support)	.1688 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	4 mm
Height relative to the center of the crankshaft	8 mm

Fuel consumption

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

Load condition	1500 r/min		1500
Load condition	g/(kW-h)	L/h	
Standby	213.7	124.1	
Prime	208.4	110.1	
75% prime	203.4	80.6	
50% prime	207.0	54.7	

- Engine: Yuchai YC6T660L-D20
- Alternator:Stamford/Leroy Somer /Hengsheng
- Controller:DeepSea/SmartGen /DEIF/ComAp

Centerline deviation relative to the crankshaft center gravity

Moments of rotation inertia

Engine	.6.18 kg·m²
Flywheel	4.04 kg·m ²

Performance rating

Speed droop	≤3 %
Steady state speed band	0.5 %

Test conditions

Ambient temperature	25 °C
Atmospheric pressure	
Relative humidity	<mark>30 %</mark>
Max. operating intake resistance	
Exhaust backpressure limit	
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	<mark>55</mark> A
Starter	
Туре	Electric start, 1
Voltage	
Power	
Number of teeth of flywheel	
Number of teeth of starter	11



Cooling system

Total coolant capacity
Engine coolant capacity
Radiator coolant capacity
Pipeline coolant capacity
Engine max. outlet coolant temperature
Thermostat operation temperature
Initial open(75±2)°C
full open(85±2)℃
Max. coolant temperature rise:
-Standby power
-Prime power
Radiator & Intercooler
Dry weight
Radiator
Cooling area
Core materialAluminum
Width of core1368 mm
Height of core
Thickness of core
Min. pressure of pressure cap(50±5)kPa
Coolant resistance limit
Intercooler
Cooling area
Core materialAluminum
Width of core
Height of core1125 mm
Thickness of core

Intake system

Air filter

Max. intake resistance:
-Clean air filter
-Dirty air filter
-Warning of intake resistance 6.2 kPa
-Air filter typeDry-type, filter cartridge of paper
Rated flow
Inclination
Transverse inclination/longitudinal inclination (volume of engine oil sump: 52 L)10*/ 10*
Fuel system
Injection systemMechanical pump+electronic governor
Injector
TypeP-type
Injector opening pressure
Fuel pump
Drive mode Gear driver
Fuel delivery pump flow @1,500 rpm 10 L/mir
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 12 kPa
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 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:3500*1440*1800mm Weight:3800kg



Dimension:4700*2100*2400mm Weight:6650kg Fuel Tank Capacity:1000L 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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