



Genset	
Model	JHY5-100GF
Voltage	230/400V
Frequency&Speed	50HZ 1500RPM
Prime Power	108kW/135kVA
Standby Power	119kW/149kVA

- > Engine: Yuchai YC4A180L-D20
- > Alternator:Stamford/Leroy Somer /Hengsheng
- Controller:DeepSea/SmartGen /DEIF/ComAp

General Engine Data

nnical parameters	Main te
/linders 4	Number o
Vertical, in-line	Configura
Turbocharged, air-air intercooled	Aspiration
system Direct injection	Combustic
ratio	Compress
108 mm	Bore
	Stroke
t	Displacen
Counterclockwise (viewed from the flywheel end)	Rotation
viewed from the belt pulley end)1-3-4-2	Firing orde
vithout radiator)465 kg	Dry weigh
without radiator)550 kg	Wet weigh

Overall dimensions

Length (from front end of radiator to rear end of air filter)
1419 mm
Width805 mm
Height (with radiator and mounting support) 1057 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	.420.6 mm
Height relative to the center of the crankshaft	.146.9 mm

Fuel consumption

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

Load condition	1500 r/min	
	g/(kW·h)	L/h
Standby	213.6	33.8
Prime	208.2	29.9
75% prime	200.6	21.6
50% prime	201.6	14.5

Centerline deviation relative to the crankshaft center gravity
8 mm
Moments of rotation inertia
Engine
Flywheel
Performance rating
Speed droop≤1 %
Steady state speed band≤1 %
Test conditions
Ambient temperature
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.

Electric system

details.

Туре	Negative ground
Charger	
Voltage	28V/14V
Output current	55A/65A
Starter	
Туре	Electric start, 1
Voltage	24V/12V
Power	5 kW/3.7kW
Number of teeth of flywheel	130
Number of teeth of starter	11

Contact the Yuchai Technical Service Department for



Cooling system Intake system Total coolant capacity.......27 L Air filter Engine coolant capacity......9 L Max. intake resistance: Radiator coolant capacity......15 L Pipeline coolant capacity......3 L -Dirty air filter 5 kPa Engine max. outlet coolant temperature......97°C -Air filter type......Dry-type, filter cartridge of paper Pressure difference between inlet and outlet of water pump (max. hydrostatic head).......150kPa Inclination Transverse inclination/longitudinal inclination (volume of Thermostat operation temperature engine oil sump: 15 L)±10° Initial open.....(70±2)°C Transverse inclination/longitudinal inclination (volume of full open.....< 80°C engine oil sump: 10.5 L)±10° Max. coolant temperature rise: Fuel system -Standby power.....8°C Injection system..... Mechanical pump+ electronic governor Injector Radiator Type...... Multiple jets Cooling area.......48m² Injector opening pressure.....(26~27) MPa Fuel pump Core material......Aluminum Number of lines.......69 Fuel delivery pump flow @1500 rpm 0.7 L/min Density of core......13 cooling fins/inch Max. fuel inlet temperature limit......70 ℃ Width of core......702 mm Allowed fuel inlet pressure of front end of fuel delivery pump Height of core......740 mm (absolute pressure)......(35 ~ 100) kPa Min. pressure of pressure cap.....(50±5)kPa Maximum fuel return pressure of fuel pump20 kPa Fan Fine-filter Diameter......500 mm Drive ratio. 1.94:1 MaterialSteel Filtering efficiency: Number of blades......6 For particles of 10 µm.....≥96 % For particles of 3 µm...../ Type......Blowing **Alternator**

Pole No.4-PoleExciter TypeSingle bearing, Brushless, Self-excitedPower factor0.8Voltage adjust range $\leq 5\%$ Insulation GradeHProtection GradeIP23/22Phase / wire3 phase 4 wires

- \diamond 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:2250*950*1400mm Weight:1300kg



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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