

JIANGHAO GENERATOR

Genset	
Model	JHY-50GF
Voltage	277/480V
Frequency&Speed	60HZ 1800RPM
Prime Power	50kW/62kVA
Standby Power	54kW/68kVA

General Engine Data

Main technical parameters

Number of cylinders	. 4
Configuration Vertical, in-li	ne
Aspiration Normally Aspirat	ed
Combustion system Direct injecti	оп
Compression ratio	5:1
Bore	nm
Stroke	m
Displacement	+ L
Rotation Counterclockwise (viewed from the flywheel en	nd)
Firing order (viewed from the belt pulley end)1-3-4	4-2
Dry weight (without radiator)	kg
Wet weight (without radiator)	kg

Overall dimensions

Length (from from	end of radiator	to rear end	of air filter)
Longer (For nor	and of radiator	to rour one	or an intery

	1298 mm
Width	
Height (with radiator and mounting support)	999 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.

Load condition	1800 r/min	
	g/(kW·h)	L/h
Standby	219.5	15.9
Prime	218.0	14.4
75% prime	226.6	11.2
50% prime	245.9	8.1

- Engine: Yuchai YC4D80Z-D20
- Alternator:Stamford/Leroy Somer
 /Hengsheng

Controller:DeepSea/SmartGen

/DEIF/ComAp

Centerline deviation relative to the crankshaft center gravity

.....9 mm

Moments of rotation inertia

Engine	1.068 kg·m²
Flywheel	.0.89 kg·m ²

Performance rating

Speed	droop	≤3 %	
Steady	y state speed band	≤0.5 %	

Test conditions

Ambient temperature	25 °C
Atmospheric pressure	
Relative humidity	
Max. operating intake resistance	
Exhaust backpressure limit	
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

TypeNegat	tive ground
Charger	
Voltage	28V/14V
Output current	27 A/35A

Starter

Type	í.
Voltage	
Power	I.
Number of teeth of flywheel)
Number of teeth of starter11	ľ



Cooling system

Total coolant capacity	
Engine coolant capacity	
Radiator coolant capacity	12 L
Pipeline coolant capacity	2 L
Engine max. outlet coolant temperature	
Pressure difference between inlet and outlet of	water pump
(max. hydrostatic head)	(60~70) kPa
Thermostat operation temperature	
Initial open	(70±2)℃
full open	
Max. coolant temperature rise:	
-Standby power	8°C
-Prime power	
Radiator	
Cooling area	
Dry weight	
Core malerial	Aluminium
Number of lines	
Density of core	3 cooling fins/inch
Width of core	
Height of core	
Min. pressure of pressure cap	(50±5)kPa
Coolant resistance limit	
Coolant pump	
Rotation speed	
Drive mode	Pulley driven
Fan	
Diameter	
Drive ratio	
Material	Steel

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

Fuel pump

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Drive mode	Gear driven
Fuel delivery pump flow @1,800 rpm	0. 3 L/min
Max. fuel inlet temperature limit	
Allowed fuel inlet pressure of front end of fue (absolute pressure)	
Maximum fuel return pressure of fuel pump	
Fuel filter	
Rated flow	
Max. original resistance	
Filter efficiency:	
For particles of 25µm	
For particles of 10 µm	85 <mark>%</mark>

- 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:1850*750*1200mm Weight:950kg



Dimension:3000*1100*1700mm Weight:1850kg Fuel Tank Capacity:280L 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

Jiangsu Jianghao Generator Co.,Ltd

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