



Genset

| | |
|-----------------|--------------|
| Model | JHY5-250GF |
| Voltage | 230/400V |
| Frequency&Speed | 50HZ 1500RPM |
| Prime Power | 253kW/316kVA |
| Standby Power | 278kW/348kVA |

- **Engine: Yuchai YC6MK420L-D20**
- **Alternator: Stamford/Leroy Somer /Hengsheng**
- **Controller: DeepSea/SmartGen /DEIF/ComAp**

General Engine Data

Main technical parameters

| | |
|--|---|
| Number of cylinders | 6 |
| Configuration | Vertical, in-line |
| Aspiration | Turbocharged, air-air intercooled |
| Combustion system | Direct injection |
| Compression ratio | 16.8:1 |
| Bore | 123 mm |
| Stroke | 145 mm |
| Displacement | 10.34 L |
| Rotation | Counterclockwise (viewed from the flywheel end) |
| Firing order (viewed from the belt pulley end) | 1-5-3-6-2-4 |
| Dry weight (without radiator) | 1030 kg |
| Wet weight (without radiator) | 1080 kg |

Overall dimensions

| | |
|---|---------|
| Length (from front end of radiator to rear end of air filter) | 2088 mm |
| Width | 1130 mm |
| Height (with radiator and mounting support) | 1392 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 | 567 mm |
| Height relative to the center of the crankshaft | 181 mm |

Fuel consumption

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

| Load condition | 1500 r/min | |
|----------------|------------|------|
| | g/(kW·h) | L/h |
| Standby | 209.6 | 77.6 |
| Prime | 203.9 | 69.1 |
| 75% prime | 204.7 | 51.8 |
| 50% prime | 211.3 | 35.6 |

Centerline deviation relative to the crankshaft center gravity

Moments of rotation inertia

| | |
|----------------|------------------------|
| Engine | 3.02 kg·m ² |
| Flywheel | 2.35 kg·m ² |

Performance rating

| | |
|-------------------------------|--------|
| Speed droop | ≤3 % |
| Steady state speed band | ≤0.5 % |

Test conditions

| | |
|--|---------|
| Ambient temperature | 25 ℃ |
| Atmospheric pressure | 100 kPa |
| Relative humidity | 30 % |
| Max. operating intake resistance | ≤5 kPa |
| Exhaust backpressure limit | ≤10 kPa |
| Fuel temperature (fuel inlet pump) | 38±2 ℃ |

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

Type

Charger

| | |
|----------------------|-----|
| Voltage | 28V |
| Output current | 55A |

Starter

| | |
|-----------------------------------|-------------------|
| Type | Electric start, 1 |
| Voltage | 24V |
| Power | 9kW |
| Number of teeth of flywheel | 119 |
| Number of teeth of starter | 11 |

Cooling system

| | |
|---|---------|
| Total coolant capacity..... | 65 L |
| Engine coolant capacity..... | 21 L |
| Radiator coolant capacity..... | 40 L |
| Pipeline coolant capacity..... | 4 L |
| Engine max. outlet coolant temperature..... | 99℃ |
| Thermostat operation temperature | |
| Initial open..... | (80±2)℃ |
| full open..... | < 90℃ |
| Max. coolant temperature rise: | |
| -Standby power..... | 8.5℃ |
| -Prime power..... | 8℃ |

Radiator

| | |
|------------------------------------|---------------------|
| Cooling area..... | 114.4m ² |
| Dry weight..... | 155kg |
| Core material..... | Aluminum |
| Width of core..... | 1050 mm |
| Height of core..... | 1060 mm |
| Thickness of core..... | 96 mm |
| Min. pressure of pressure cap..... | (50±5)kPa |
| Coolant resistance limit..... | ≤30 kPa |

Intercooler

| | |
|------------------------|---------------------|
| Cooling area..... | 53.2 m ² |
| Core material..... | Aluminum |
| Width of core..... | 1050 mm |
| Height of core..... | 1060 mm |
| Thickness of core..... | .63 mm |

Alternator

| | |
|----------------------|---|
| Pole No. | 4-Pole |
| Exciter Type | Single bearing, Brushless, Self-excited |
| Power factor | 0.8 |
| Voltage adjust range | ≅ 5% |
| Insulation Grade | H |
| Protection Grade | IP23/22 |
| Phase / wire | 3 phase 4 wires |

- ✧ 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.

Intake system

Air filter

| | |
|------------------------------------|-------------------------------------|
| Max. intake resistance: | |
| -Clean air filter..... | 3.5 kPa |
| -Dirty air filter..... | 5 kPa |
| -Warning of intake resistance..... | 6.2 kPa |
| -Air filter type..... | Dry-type, filter cartridge of paper |

Inclination

| | |
|--|-----------|
| Transverse inclination/longitudinal inclination (volume of engine oil sump: 28 L)..... | .20°/ 15° |
|--|-----------|

Fuel system

| | |
|-----------------------|-------------------------------------|
| Injection system..... | Mechanical pump+electronic governor |
|-----------------------|-------------------------------------|

Injector

| | |
|--------------------------------|----------------------------|
| Type..... | P-type, with multiple jets |
| Injector opening pressure..... | (26~27) MPa |

Fuel pump

| | |
|---|----------------|
| Drive mode..... | Gear driven |
| Fuel delivery pump flow @ 1,500 rpm..... | 4.1 L/min |
| Max. fuel inlet temperature limit..... | 70 ℃ |
| Allowed fuel inlet pressure of front end of fuel delivery pump (absolute pressure)..... | (-100~150) kPa |
| Maximum fuel return pressure of fuel pump..... | .20 kPa |

Fuel filter

Pre- filter

| | |
|--|---------|
| Rated flow..... | 7 L/min |
| Max. original resistance..... | 12 kPa |
| Water separation efficiency at the rated flow..... | ≥ 95 % |

Control Panel



The control module gives digital readouts of:

Generator voltage;
Output frequency;
Engine speed;
Battery voltage;
Engine hours run.



Dimension:3010*1120*1600mm

Weight:2200kg



Dimension:4000*1700*2000mm

Weight:4100kg

Fuel Tank Capacity:680L

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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