



➤ **Engine: Yuchai YC6TC840-D31**

➤ **Alternator: Stamford/Leroy Somer**

/Hengsheng

➤ **Controller: DeepSea/SmartGen/DEIF**

/ComAp

Genset

Model	JHY5-450GF
Voltage	230/400V
Frequency&Speed	50HZ 1500RPM
Prime Power	505kW/631kVA
Standby Power	554kW/693kVA

General Engine Data

No.of Cylinders:	6	Displacement:	16.35L
Bore:	145mm	Lube oil:	56L
Stroke:	165mm	Consumption:	220g/kw.h

Product Features

- ◆ Electronic unit pump, four-valve structure, turbocharged & intercooled, and Yuchai combustor technologies are adopted for realizing sufficient air intake, full combustion and low fuel consumption, less emission and fast and high-quality loading.
- ◆ High-quality alloy cast iron cylinder block of reinforced grid structure with cambered surface, high-strength vermicular iron cylinder head, dual protection anti-impact cylinder gasket structure, and self-developed cooling technology for the bottom of the cylinder head are adopted, which ensure high reliability.
- ◆ The Yuchai proprietary carbon-scraping self-cleaning technology is adopted for ensuring low Lubricating oil consumption.
- ◆ Electric pre-supply oil technology is adopted, which effectively protects kinematic pair and improves the service life of engine.
- ◆ The crankshaft is made of high-quality alloy steel by using all fiber extrusion forging process, and the journal and circular bead are subject to quenching heat treatment for improving wear resistance and prolonging service life.
- ◆ The structure of one head for one cylinder is adopted; maintenance window is set at the side of the engine body, which ensures easy maintenance.

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 drip-proof 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.

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



Dimension:3500*1600*1900mm
Weight:3900kg

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



Dimension:4700*2100*2400mm
Weight:6750kg
Fuel Tank Capacity:1000L

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