





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

General Engine Data

Main technical parameters

 Combustion system
 Direct injection

 Compression ratio
 15:1

 Bore
 145 mm

 Stroke
 165 mm

 Displacement
 16.35 L

 Rotation
 Counter dockwise (viewed from the flywheel end)

Overall dimensions

Length (from front end of radiator to rear end of air filter)

	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)

Fuel consumption

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

Load condition	1500 r/min	
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

Centerline deviation relative to the crankshaft center gravity

Moments of rotation inertia

Performance rating

 Speed droop
 ≤3 %

 Steady state speed band
 ≤0.5 %

Test conditions

Ambient temperature	25 °C
Atmospheric pressure	0 kPa
Relative humidity	. 30 %
Max. operating intake resistance	5 kPa
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

TypeNegative ground
Charger
Voltage
Output current
Starter
Type Electric start, 1
Voltage
Power9kW
Number of teeth of flywheel123
Number of teeth of starter



Cooling system Intake system Total coolant capacity......89 L Air filter Engine coolant capacity.......36 L May intake resistance Radiator coolant capacity......48 L -Clean air filter 3.5 kPa Pipeline coolant capacity.......5 L -Dirty air filter 5 kPa Engine max. outlet coolant temperature......99°C -Warning of intake resistance 6.2 kPa Thermostat operation temperature Initial open.....(75±2)*C Rated flow......2100m³ /h full open.....(85±2)°C Inclination Max. coolant temperature rise: Transverse inclination/longitudinal inclination (volume of -Standby power......8.0°C engine oil sump: 52 L)10°/ 10° Fuel system Injection system......Mechanical pump+electronic governor Radiator & Intercooler Injector Radiator Injector opening pressure(24~25) MPa Cooling area......142.1m² Fuel pump Fuel delivery pump flow @1,500 rpm 10 L/min Height of core......1140 mm Thickness of core......82 mm Max. fuel inlet temperature limit70 °C Min. pressure of pressure cap.....(50±5)kPa Allowed fuel inlet pressure of front end of fuel delivery pump (absolute pressure)......(-100~150) kPa Maximum fuel return pressure of fuel pump20 kPa Intercooler Fuel filter Pre-filter Core materialAluminum Max. original resistance 12 kPa Height of core1125 mm

Alternator

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



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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