



PYC550B

Prime Power: 400KW/500KVA Standby Power: 440KW/550KVA Voltage: 400V

Powered by Yuchai YC6T660-D31 Engine

Genset Performance

230/400V	50Hz, 0.8PF, 3 Phases 4	wires
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■ Frequency drop ≤3%

■ Voltage regulation ≤0.3%

■ The steady state frequency ≤0.5%

The steady state voltage deviation $\leq \pm 1\%$

■ The transient frequency deviation ≤+10% ≤-15%

■ The transient voltage deviation ≤+20% ≤-15%

■ Frequency recovery time ≤3S

■ Voltage recovery time ≤1S(Voltage±3%)

■ THF (Telephone Harmonic Factor) <3</p>

TIF (Telephone Influence Factor) <50
 Comply to Standard NEMA MG1-22.43

■ Standard equipped with ambient temperature 40 °C Connecting radiator

Built-in vibration isolator with high performance on shock absorption.

Product standards: (1) GB/T 2820-2022 / IS08528:2018
 (2) GB/T 4712-2008 (3) YD/T 502-2020 (4)YD/T 1051-2018

Standard Configuration

- Guangxi Yuchai Engine
- Brushless synchronous alternator
- POWERTEC intelligent controller
- 40°C standard ambient temperature (50°C Optional)
- Circuit breaker (3P)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- Manual book and files

Optional Items

- Starting batteries
- Fuel tank
- Oil-water separator
- Sensor for low coolant level, low fuel/oil level
- Automatically monitoring & controlling system of city power
- Coolant heater
- Oil heater
- Heat exchanger--Water cooled tower system
- Silent type/Trailer
- Standardized container
- Design and construction of environmental protection; engineering for the Genset room.



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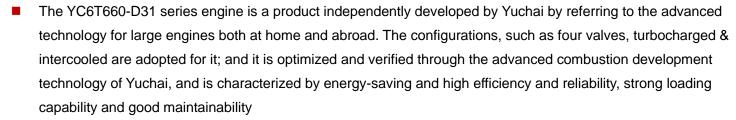
Equipment Instruction



Diesel Engine

■ Model: YC6T660-D31

- Four-valve structure, turbocharged & intercooled, electronic unit pump technologies are adopted for realizing sufficient air intake, full combustion and low fuel consumption, fast and high-quality loading;
- The cylinder body is of mesh reinforcement structure, the cylinder cover is of double-layer water flow design, and the crankshaft connecting rod is made from high strength alloy, making the engine highly reliable;
- Gear-reduction starter is adopted, making the engine start quickly;
- It is characterized by good universality of parts, high serialization degree, structure of one head for one cylinder, and low comprehensive maintenance cost;





Alternator

- Optional brands: Stamford / Marathon / Faraday / Engga / Mecc Alt
- Brushless, 4 pole rotating magnetic field, single bearing with protective cover.
- Insulation: H Class.
- IP Class: IP23
- Cooling system
- AC exciter, rotate rectifying
- The stator winding is impregnated and the surface is covered with moisture-proof epoxy insulating paint.
- Rotor and exciter made with high temperature insulating resin, to satify tough environment.
- Rotor dynamic balancing complys for BS5625, class 2.5
- Sealed with advanced lubricating grease to prolong life of bearing.



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Intelligent Control System



Standard Meters

- 3 phases voltage: Ua, Ub, Uc
- Frequency F1
- Apparent power PR
- Power factor PF
- Coolant temperature WT
- Temperature °C display
- Oil pressure OP
- Engine speed

- 3 phases current: La, Lb, Lc
- Active power PA
- Power factor PF
- Temperature °C display
- KPa/Psi/Bar display
- Battery voltage V
- Running Hour
- Starting timer:(999999)



Standard Protection Function

Genset Protection

Programmable I/O signal

Engine Protection

- Stop for over speed
- Low oil pressure
- High Coolant temperature
- Sensor fail

Alternator Protection

- Over Voltage
- Over current
- Voltage signal lost

Control System Components

- Manual/auto/stop/start
- Setting button
- Fault status indicators

- Emergency stop
- Alarm for low/high battery voltage
- Low battery voltage
- Fail to start/Cranking fail
- Over Voltage
- Over frequency
- Under frequency
- Screen menu selection button
- Emergency stop button
- Digital displayer



Communication Interface

(Option)

International standard MODBUS communication protocol RS232/ RS485 is suitable for remote control and monitor; It is easy integrated with SCADA;.

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Data sheet of Genset

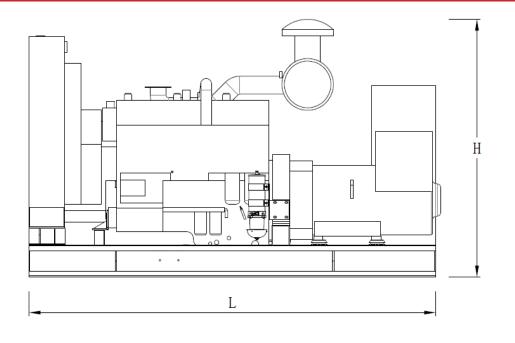


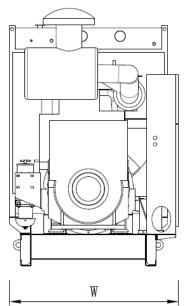
Genset							
Model	PYC550B						
Prime Rating (kw)	400						
Standby Rating (kw)	440						
Rate current(A)	722						
Power factor	0.8						
Frequency(Hz)	50						
Engine							
Engine Model	YC6T660-D31						
Gross Engine output-Prime (kw)	441						
Gross Engine output-Standby (kw)	485						
Bore * stroke (mm)	145*165						
Cylinders and structure	6 In line						
Displacement(Liter)	16.35						
Compression Ratio	15:1						
Intake way	Supercharge/Air-Air intercooling						
Max intake resistance (KPa)	5						
Air intake (m3/h)	1926						
Max exhaust back pressure (KPa)	10						
Exhaust gas flow (m3/h)	4951						
Exhaust temp (℃)	570						
Cooling way	Water Radiator & Fan						
Fan exhaust flow (m3/min)	492						
Coolant capacity (L)	88						
Highest water temperature(℃)	99						
Minimum air opening to room (m2)	2.2/1.9						
Thermostat range (℃)	75-85						
Max oil temperature (°C)	110						
Lubrication system oil capacity (L)	54						
Rate load fuel consumption(L/H)	113.8						
Standard Governor/Class	Electronic unit pump						
Emission	China Tier 3						
Alternator							
Rated Voltage(V)	230/400						
Output Way	3 Phases, 4 wires						
Rated power factor	0.8						
Exciter	Brushless, Self-exciter						
Max voltage regulation	±1%						
Phase	3						
Protection class	IP21-23						
Insulation class	Н						
Controller							
Brand POWERTEC							

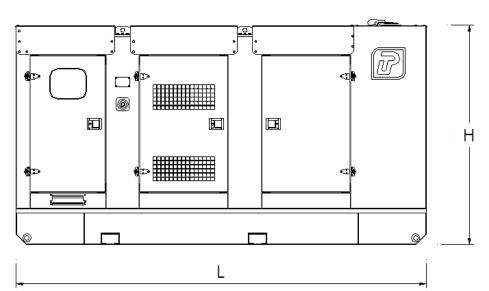
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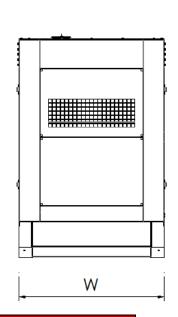
Dimension and Weight











Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	3514*1390*1762	3600	_
Silent Type	4700*1700*2450	5550	1100

Contact Us

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