

PYC750B

Prime Power: 550KW/688KVA

Standby Power: 600KW/750KVA

Voltage: 400V

Powered by Yuchai YC6TD900-D31 Engine

Genset Performance

- 230/400V, 50Hz, 0.8PF, 3 Phases 4 wires
- Frequency drop $\leq 3\%$
- Voltage regulation $\leq 0.3\%$
- The steady state frequency $\leq 0.5\%$
- The steady state voltage deviation $\leq \pm 1\%$
- The transient frequency deviation $\leq +10\%$ $\leq -7\%$
- The transient voltage deviation $\leq +20\%$ $\leq -15\%$
- Frequency recovery time $\leq 3S$
- Voltage recovery time $\leq 1S(\text{Voltage} \pm 3\%)$
- THF (Telephone Harmonic Factor) < 3
- 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 / ISO8528:2018
(2) GB/T 4712-2008 (3) YD/T 502-2020 (4) YD/T 1051-2018

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.

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



Diesel Engine

- Model: YC6TD900-D31
- The main structures, such as engine body, are time-tested, which ensures the high reliability of the whole engine.
- Advanced and mature electronic unit pump and high-efficient turbocharged & intercooled technologies are adopted, which ensure precise control of fuel-injection quantity and sufficient air intake; and the full combustion, low fuel consumption and less emission of diesel engine under different load conditions are ensured;
- Full-flow oil cooler is adopted; thus heat dissipation efficiency is increased by 30% and oil temperature is effectively reduced; and the oil can lubricate the parts under reasonable temperature to reduce the friction loss.;
- The structure of one head for one cylinder is adopted, which ensures easy maintenance and reliable sealing;
- The internal cooling oil passage technology is adopted for piston, which effectively reduces piston temperature and ensures the long service life;
- YC6TD series engine is a classic engine product developed by Yuchai, which is well-known and highly recognized in the market and has market holdings of more than 400,000 sets. YC6TD900-D31 engines for generator sets, developed based on YC6TD engines, have advantages such as high reliability, durability, energy-saving and environment-friendly, compact structure, strong transient loading capacity and easy maintenance.



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 satisfy tough environment.
- Rotor dynamic balancing complies for BS5625, class 2.5
- Sealed with advanced lubricating grease to prolong life of bearing.



Standard Meters

- 3 phases voltage: U_a , U_b , U_c
- Frequency $F1$
- Apparent power PR
- Power factor PF
- Coolant temperature WT
- Temperature $^{\circ}C$ display
- Oil pressure OP
- Engine speed
- 3 phases current: I_a , I_b , I_c
- Active power PA
- Power factor PF
- Temperature $^{\circ}C$ display
- KPa/Psi/Bar display
- Battery voltage V
- Running Hour
- Starting timer:(999999)



Standard Protection Function

Genset Protection

- Programmable I/O signal
- Emergency stop

Engine Protection

- Stop for over speed
- Low oil pressure
- High Coolant temperature
- Sensor fail
- Alarm for low/high battery voltage
- Low battery voltage
- Fail to start/Cranking fail

Alternator Protection

- Over Voltage
- Over current
- Voltage signal lost
- Over Voltage
- Over frequency
- Under frequency

Control System Components

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

Genset

Model	PYC750B
Prime Rating (kw)	550
Standby Rating (kw)	600
Rate current(A)	992
Power factor	0.8
Frequency(Hz)	50

Engine

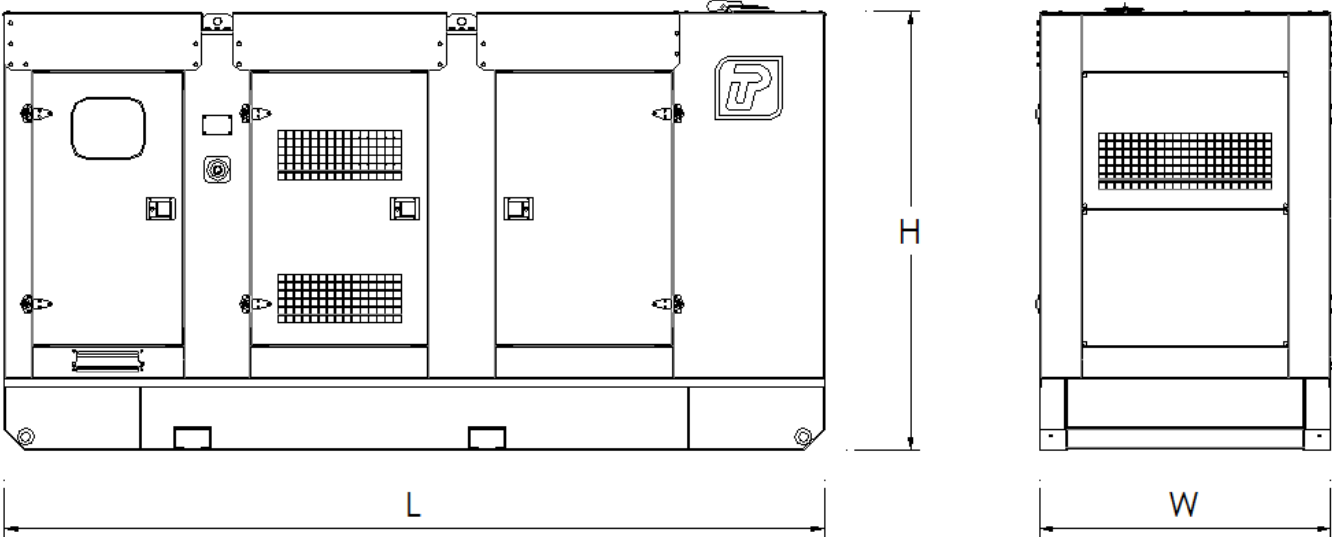
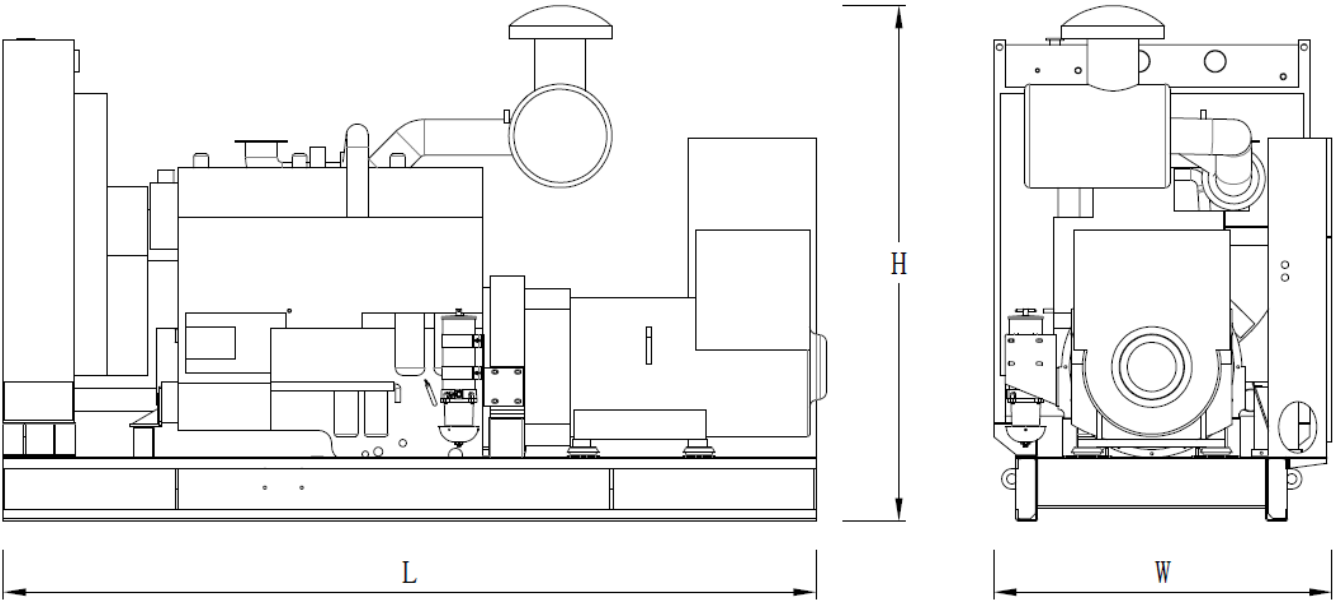
Engine Model	YC6TD900-D31
Gross Engine output-Prime (kw)	605
Gross Engine output-Standby (kw)	665
Bore * stroke (mm)	152*180
Cylinders and structure	6 In line
Displacement(Liter)	19.6
Compression Ratio	14:1
Intake way	Supercharge/Air-Air intercooling
Max intake resistance (KPa)	5
Air intake (m3/h)	2400
Max exhaust back pressure (KPa)	10
Exhaust gas flow (m3/h)	7260
Exhaust temp (°C)	550
Cooling way	Water Radiator & Fan
Fan exhaust flow (m3/min)	1160
Coolant capacity (L)	148
Highest water temperature(°C)	97
Minimum air opening to room (m2)	2.8/2.4
Thermostat range (°C)	75-85
Max oil temperature (°C)	120
Lubrication system oil capacity (L)	56
Rate load fuel consumption(L/H)	154.3
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	H

Controller

Brand	POWERTEC
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Type	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	3780*1642*1886	4500	—
Silent Type	4700*1700*2450	6450	1100

Contact Us

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