

# PYC1375B

Prime Power:1000KW/1250KVA Standby Power: 1100KW/1375KVA Voltage: 400VAC

Powered by Yuchai YC6C1660-D30 Engine

## Genset Performance

- 230/400VAC, 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  $\leq +10\% \leq -15\%$
- 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  $40^{\circ}\text{C}$   
Connecting radiator
- Built-in vibration isolator with high performance on shock absorption.

## Standard Configuration

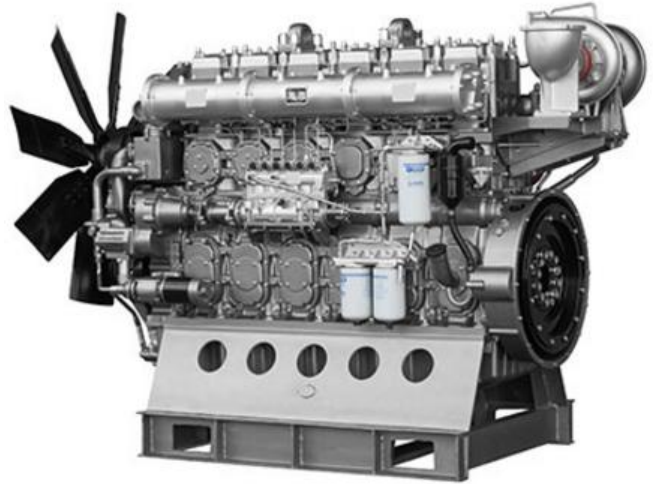
- Guangxi Yuchai Engine
- Brushless synchronous alternator
- POWERTEC intelligent controller
- $40^{\circ}\text{C}$  standard ambient temperature  
( $50^{\circ}\text{C}$  Optional)
- Molded case circuit breaker (3P)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, 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.

## Diesel Engine

- Model: PYC1375B-YC6C1660-D30
- Construction: High strength alloy cast iron has better rigidity, small vibration and low noise. The wet cylinder liner is easy to maintain.
- Intake: Charge inter-cooling
- Four valves + pressurized intercooling technology, sufficient air intake, full combustion and low fuel consumption.
- It adopts electronic control unit combined pump, ECU control smooth operation and good performance in speed regulation.
- Mechanical pump electronic speed regulation., operation smoothly, has good speed regulation and strong loading capacity.
- High quality alloy cast iron cylinder body with curved surface reinforced mesh structure, high strength vermicular cast iron cylinder cover, double insurance anti-punching cylinder cushion structure, unique cooling technology at the bottom of cylinder cover ensure engine has high reliability.
- Using Yuchai unique carbon scraping self-cleaning technology, lubricating oil consumption is low.
- Electric pre-oil supply technology is adopted to effectively protect the motion pair and prolong the service life.
- Supporting dual-energy startup.
- One cylinder and one lid structure, with maintenance window on the side of the machine body for easy maintenance. Conform to non-road country T3 and European S3A standards.



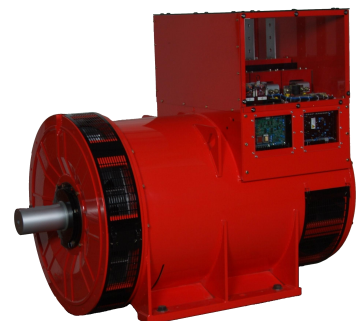
### Engine Operating Environment Description:

1800r/min engine--altitude less than 1000 m, ambient temperature less than 40 °C

1500r/min engine--altitude less than 1000 m, ambient temperature less than 40 °C

## 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 with BS5625, class 2.5
- Sealed with advanced lubricating grease to prolong life of bearing.



**Notes: Above data of alternator comes from Stamford. Specification may alternated without advance notice.**

## Standard

- 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

### 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;

**Notes: Above data of controller comes from POWERTEC GC6110. Customized solutions is available as required**

## Genset

Model	PYC1375B
Prime Rating (kw)	1000
Standby Rating (kw)	1100
Rate voltage(V)	400
Rate current(A)	1804
Power factor	0.8
Frequency(Hz)	50

## Engine

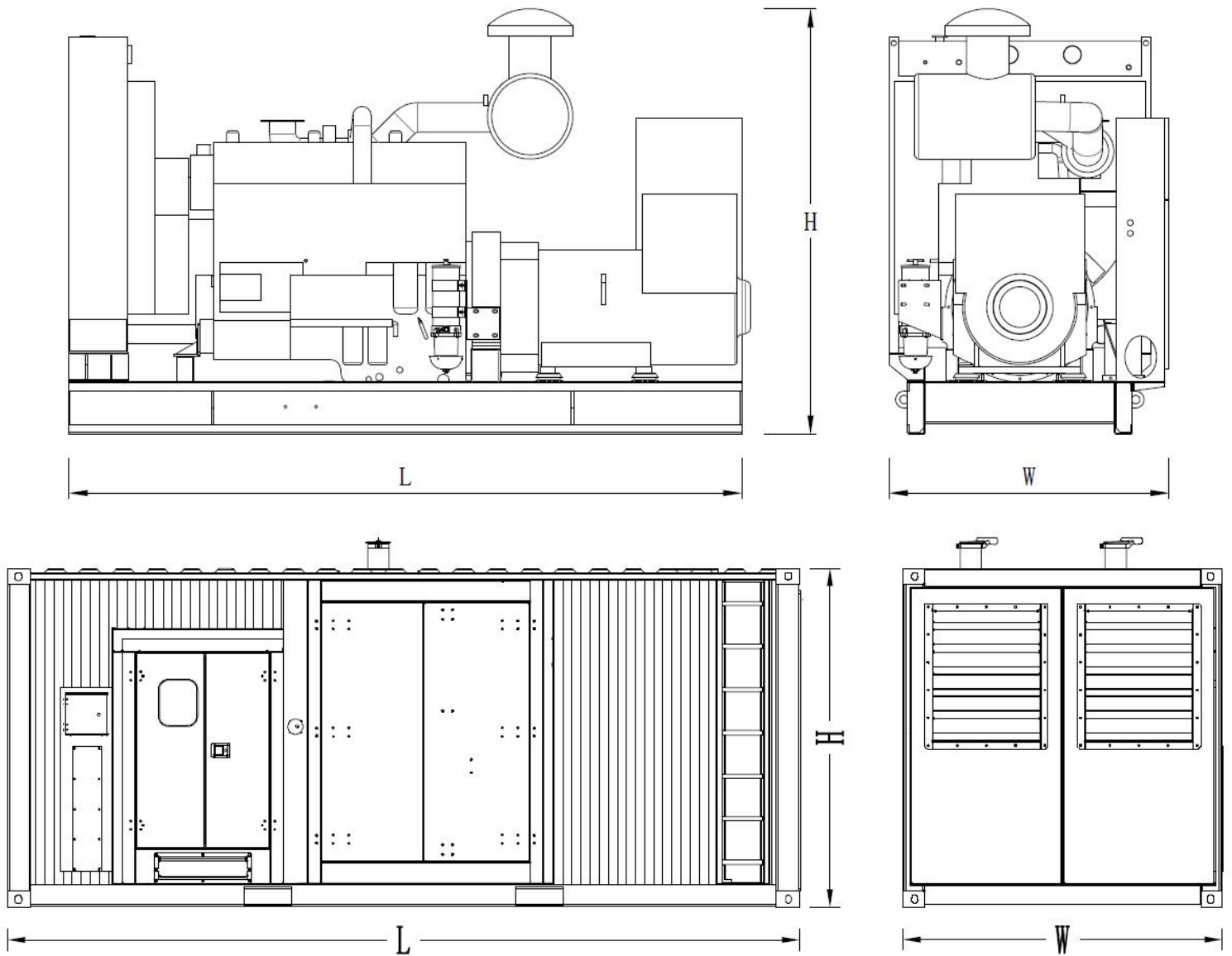
Engine Model	YC6C1660-D30
Gross Engine output-Prime (kw)	1110
Gross Engine output-Standby (kw)	1221
Bore * stroke (mm)	200*210
Cylinders and structure	6 In line
Displacement(Liter)	39.58
Compression Ratio	13.5:1
Intake way	Supercharge/Air-Air intercooler
Max intake resistance (KPa)	5
Air intake (m3/h)	5350
Max exhaust back pressure (KPa)	10
Exhaust gas flow (m3/h)	15500
Exhaust temp (°C)	518
Cooling way	Water Radiator & Fan
Fan exhaust flow (m3/min)	1800
Coolant capacity (L)	197
Highest water temperature(°C)	107
Minimum air opening to room (m2)	7.2/6.5
Thermostat range (°C)	75-85
Max oil temperature (°C)	120
Lubrication system oil capacity (L)	175
Rate load fuel consumption(L/H)	260
Standard Governor/Class	Electronic

## Alternator

Rated Voltage(V)	400/230
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 or DEEPSEA
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Type	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	5261*1812*2564	8560	-
Silent Type	12192*2438*2896	15360	2000

**Contact Us**

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