

PYC200A

Prime Power: 150KW/188KVA

Standby Power: 160KW/200KVA

Voltage: 400V

Powered by Yuchai YC6A245-D30 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 $\leq +10\%$ $\leq -15\%$
- 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°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

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
- Bottom fuel tank
- Manual book and files



Diesel Engine

- Model: YC6A245-D30
- Structure: High-strength cylinder block, reinforced crankshaft, and alloy steel connecting rods make the engine more durable and have a lighter and more compact structure among similar products;
- Adopting advanced and mature BOSCH electronically controlled common rail + efficient supercharging and intercooling technology to accurately control the injection. The amount of oil and air intake are sufficient to ensure that the diesel engine has sufficient combustion under different load conditions and improves fuel consumption. Low, less emissions;
- Using a full-flow oil cooler, the heat dissipation efficiency is increased by 30%, effectively reducing the temperature of the oil, allowing the oil to lubricate parts at a reasonable temperature and reducing friction losses;
- The piston is cooled by an internal cooling oil channel, which effectively reduces the piston temperature and has a long service life;
- The YC6A series engine is a mature product with excellent performance, high reliability, and has been tested by the market for a long time, with more than one million units put on the market. The model developed according to the characteristics of the generator set has the advantages of high cost performance, easy use and maintenance, and superior NVH performance.



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 F_1
- 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 | PYC200A |
| Prime Rating (kw) | 150 |
| Standby Rating (kw) | 160 |
| Rate current(A) | 271 |
| Power factor | 0.8 |
| Frequency(Hz) | 50 |

Engine

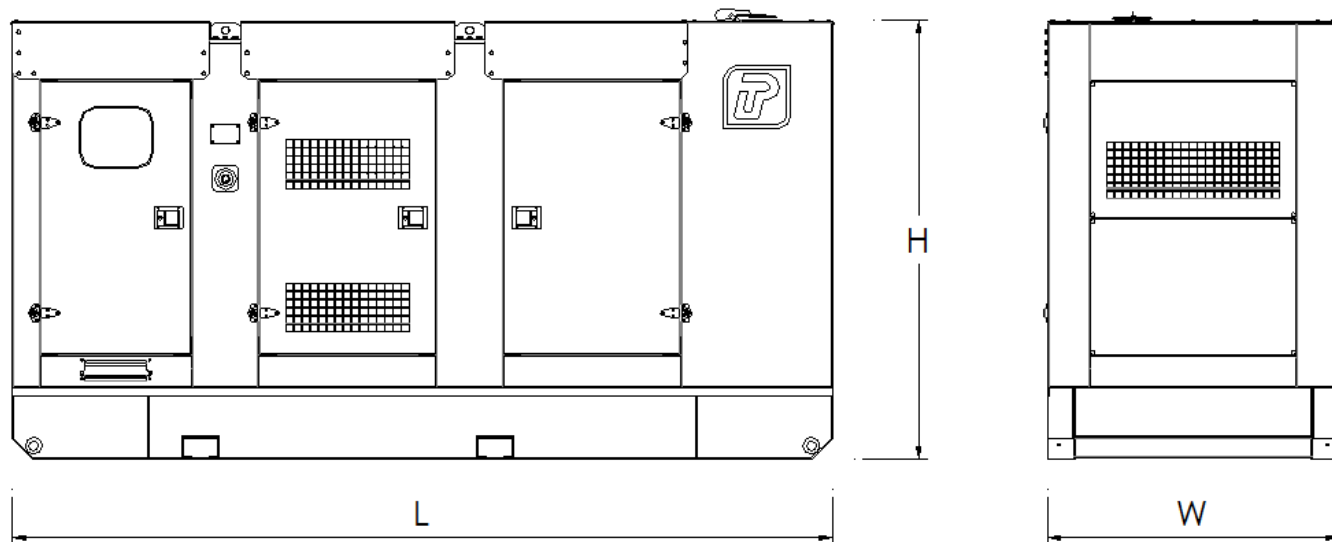
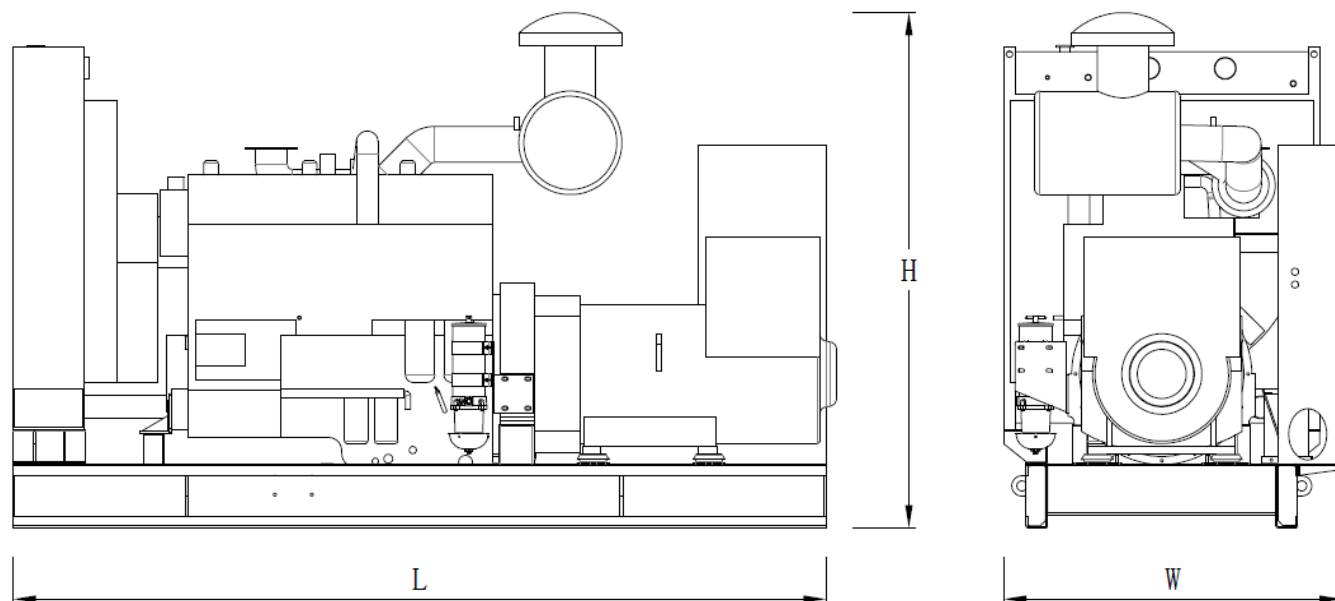
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|-------------------------------------|--|
| Engine Model | YC6A245-D30 |
| Gross Engine output-Prime (kw) | 165 |
| Gross Engine output-Standby (kw) | 181 |
| Bore * stroke (mm) | 108*132 |
| Cylinders and structure | 6 In line |
| Displacement(Liter) | 7.255 |
| Compression Ratio | 17.5:1 |
| Intake way | Supercharge/Air-Air intercooling |
| Max intake resistance (KPa) | 5 |
| Air intake (m3/h) | 720 |
| Max exhaust back pressure (KPa) | 10 |
| Exhaust gas flow (m3/h) | 1950 |
| Exhaust temp (°C) | 495 |
| Cooling way | Water Radiator & Fan |
| Fan exhaust flow (m3/min) | 277 |
| Coolant capacity (L) | 55 |
| Highest water temperature(°C) | 97 |
| Minimum air opening to room (m2) | 1.8/1.5 |
| Thermostat range (°C) | 70-80 |
| Max oil temperature (°C) | 120 |
| Lubrication system oil capacity (L) | 21 |
| Rate load fuel consumption(L/H) | 41.8 |
| Standard Governor/Class | Electronically controlled high voltage common rail |
| 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 |
|-------|----------|



| Type | Dimension (mm) (L*W*H) | Weight (kg) | Fuel Tank Capacity (L) |
|-------------|---------------------------|----------------|---------------------------|
| Open Type | 2612*1053*1478 | 1831 | 250 |
| Silent Type | 3500*1245*2052 | 3091 | 550 |

Contact Us

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