



PYC220A

Prime Power: 160KW/200KVA Standby Power: 175KW/219KVA Voltage: 400V

Powered by Yuchai YCD6Q33H6-260 Engine

Genset Performance

■ 230/400V, 50Hz, 0.8PF, 3 Phases 4 wires

■ 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

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

Standard equipped with ambient temperature 40 ℃
 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

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Equipment Instruction



Diesel Engine

- Model: YCD6Q33H6-260
- The engine has compact structure, small size, light weight and easy maintenance on one side;
- Tunnel-type linerless body has good rigidity and low oil consumption (the engine-fuel ratio is less than 0.1%);
- Electronically controlled fuel supply system, low swirl ratio airway, multi-hole small-diameter injector, strong power, excellent performance and good economy;
- Can be relayed and remotely monitored, easy to operate;
 the machine filter and diesel filter are arranged on the same side, easy to maintain;
- Low noise and low vibration, reaching the advanced level of similar international models;
- Adopt internationally renowned brand fuel pump;
- The YCD6 series engine is produced by Guangxi Yuchai Power Co., Ltd., a key subsidiary of Guangxi Yuchai Machinery Group Co., Ltd. It is the production base of Yuchai Group's small-bore, multi-cylinder diesel engines and has the annual production capacity of multi-cylinder, small-bore diesel engines. Capacity of 300,000 units;



- 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 [®] 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

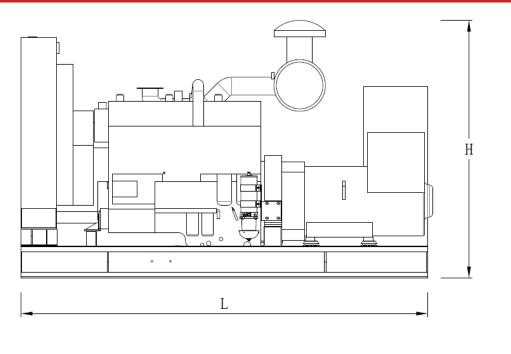


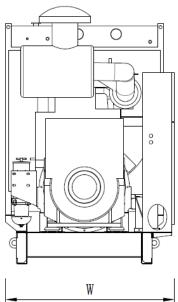
Genset				
Model	PYC220A			
Prime Rating (kw)	160			
Standby Rating (kw)	175			
Rate current(A)	289			
Power factor	0.8			
Frequency(Hz)	50			
Engine				
Engine Model	YCD6Q33H6-260			
Gross Engine output-Prime (kw)	190			
Gross Engine output-Standby (kw)	209			
Bore * stroke (mm)	108*135			
Cylinders and structure	6 In line			
Displacement(Liter)	7.5			
Compression Ratio	17.5:1			
Intake way	turbocharging			
Max intake resistance (KPa)	5			
Air intake (m3/h)	588			
Max exhaust back pressure (KPa)	10			
Exhaust gas flow (m3/h)	1764			
Exhaust temp ($^{\circ}$ C)	465			
Cooling way	Water Radiator & Fan			
Fan exhaust flow (m3/min)	277			
Coolant capacity (L)	55			
Highest water temperature(℃)	97			
Minimum air opening to room (m2)	1.8/1.5			
Thermostat range (°C)	70-80			
Max oil temperature (℃)	120			
Lubrication system oil capacity (L)	21			
Rate load fuel consumption(L/H)	46.6			
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	Max voltage regulation ±1%			
Phase	3			
Protection class	IP21-23			
Insulation class	Н			
Controller				
Brand	POWERTEC			

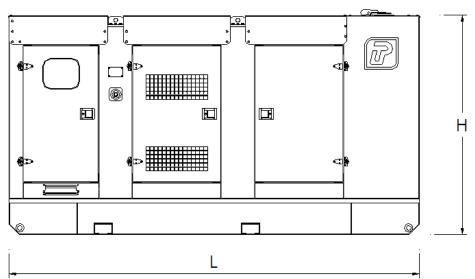
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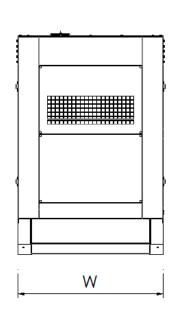
Dimension and Weight











Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	2492*943*1576	1796	250
Silent Type	3500*1245*2052	3056	550

Contact Us

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