

PYC200A

Prime Power: 150KW/188KVA Standby Power: 160KW/200KVA Voltage: 400VAC

Powered by Yuchai YC6A245L-D21 Engine

Genset Performance

230/400VAC	50Hz	0.00E	3 Dhacac /	wirac
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≤3% Frequency drop

≤0.3% Voltage regulation

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 \leq 1S(Voltage \pm 3%)

THF (Telephone Harmonic Factor) <3

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

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

Standard Configuration

- **Cummins Engine**
- Brushless synchronous alternator
- POWERTEC intelligent controller
- 40°C standard ambient temperature (50°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
- Soundproof canopy
- Trailer
- Design and construction of environmental protection
- Engineering for the Genset room

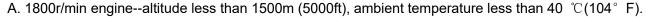


Equipment Instruction



Diesel Engine

- Model: YC6A245L-D21
- Construction: High strength cylinder block, reinforced crankshaft and alloy steel connecting rod make the engine more durable and have lighter and more compact structure in similar products.
- The engine body and other main structures have been long tested to ensure the high reliability of the whole machine.
- Integrated cylinder head and water outlet main pipe design, reduce sealing cover and improve sealing reliability.
- Environment: The engine can work normally under the following conditions without de-rating:



B. 1500r/min engine--altitude less than 1310m (4300ft), ambient temperature less than 40 $\,^{\circ}\mathrm{C}(104^{\circ}\,$ F)

But engine working environment conditions exceed above,

the engine output power will de-rate 4% as altitude increase each 300m(1000ft) at the altitude is higher than 1500m (5000ft),

Also it will de-rate 2% as temperature increase every 11 $\,^{\circ}$ C(1% de-rating ,when temperature increase each 10 $^{\circ}$ F). in the ambient temperature is higher than 40 $\,^{\circ}$ C(104 $^{\circ}$ F)



- 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
- Rotor and exciter made with high temperature insulating resin, to satify tough environment.
- Rotor dynamic balancing complys for BS5625, class 2.
- Sealed with advanced lubricating grease to prolong life of bearing.



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

Intelligent Control System



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
- **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;.

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

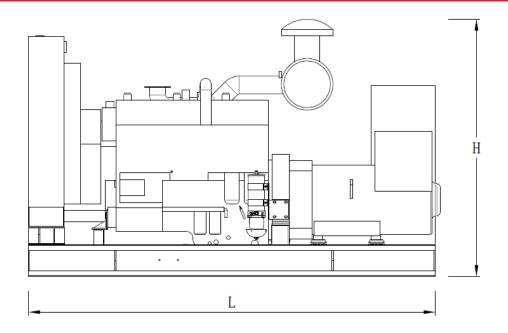
Data sheet of Genset

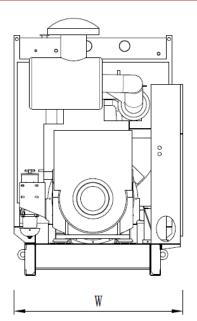


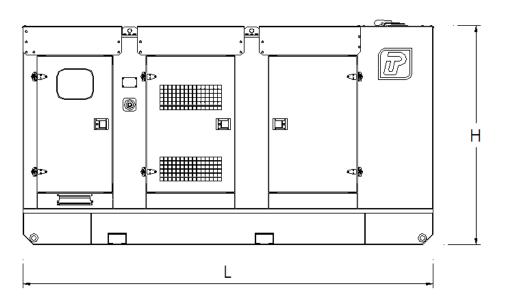
Genset							
Model	PYC200A						
Prime Rating (kw)	150						
Standby Rating (kw)	160						
Rate voltage(V)	400						
Rate current(A)	271						
Power factor	0.8						
Frequency(Hz)	50						
Engine							
Engine Model	YC6A245L-D21						
Gross Engine output-Prime (kw)	165						
Gross Engine output-Standby (kw)	181						
Bore * stroke (mm)	108*132						
Cylinders and structure	6 In line						
Displacement(Liter)	7.255						
Compression Ratio	17.5:1						
Intake way	Turbo Charge, Air-Air Intercool						
Max intake resistance (KPa)	5						
Air intake (m3/h)	756						
Max exhaust back pressure (KPa)	10						
Exhaust gas flow (m3/h)	2088						
Exhaust temp (°C)	455						
Cooling way	Water Radiator & Fan						
Fan exhaust flow (m3/min)	277.8						
Coolant capacity (L)	55						
	97						
Minimum air opening to room (m2)	2.0/1.8						
Thormostat range (°C)	70-80						
May ail tamparatura (°C)	120						
Lubrication system oil capacity (L)	21						
Rate load fuel consumption(L/H)	40.2						
Standard Governor/Class	Electronic						
Altern	nator						
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	Н						
Controller							
Brand	POWERTEC GC6110						

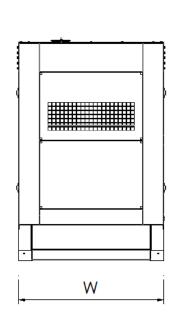
Dimension and Weight











Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	2510*1010*1586	1800	250
Silent Type	3500*1245*2052	3060	550

Contact Us

Powertec Generator System Inc.

Add: Danshui Yanna Industry Zone, Huiyang, Huizhou, Guangdong, China

Tel: +86 752-3911119 / 3911118

Fax: +86 752-3911110

Web: www.powertec.com.cn

Email: powertec@powertec.com.cn