



PYC200A

Prime Power: 150KW/188KVA

Standby Power: 160KW/200KVA Voltage: 400V

Genset Performance

- 230/400V, 50Hz, 0.8PF, 3 Phases 4 wires
- Frequency drop $\leq 3\%$
- Voltage regulation ≤0.3%
- The steady state frequency ≤0.5%
- The steady state voltage deviation $\leq \pm 1\%$
- The transient frequency deviation \leq +10% \leq -15%

≤3S

 \leq 1S(Voltage \pm 3%)

- The transient voltage deviation ≤+20% ≤-15%
- Frequency recovery time
- Voltage recovery time
- THF (Telephone Harmonic Factor) <3</p>
- TIF (Telephone Influence Factor) <50</p>
- 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

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: YC6A245L-D21
- YC6A series engine through long-term market trial, is a mature product with excellent performance and high reliability; the market quantity of it is more than one million. Such model YC6A245L-D21 is developed for the characteristics of generator unit, which is characterized by high cost performance, easy use and maintenance;
- The engine body is made of high strength alloy cast iron, making the entire engine highly reliable even after many years of service.
- Stable operation: Electronic speed governing is adopted, ensuring small rotation speed fluctuation, stable operation, low steady speed droop and quick transient response;
- Easy maintenance: The universal rate of the parts and the parts for the products in the 6A production batch is over 90%.
- G3 performance requirements for generator set are met.



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





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 °C 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;.

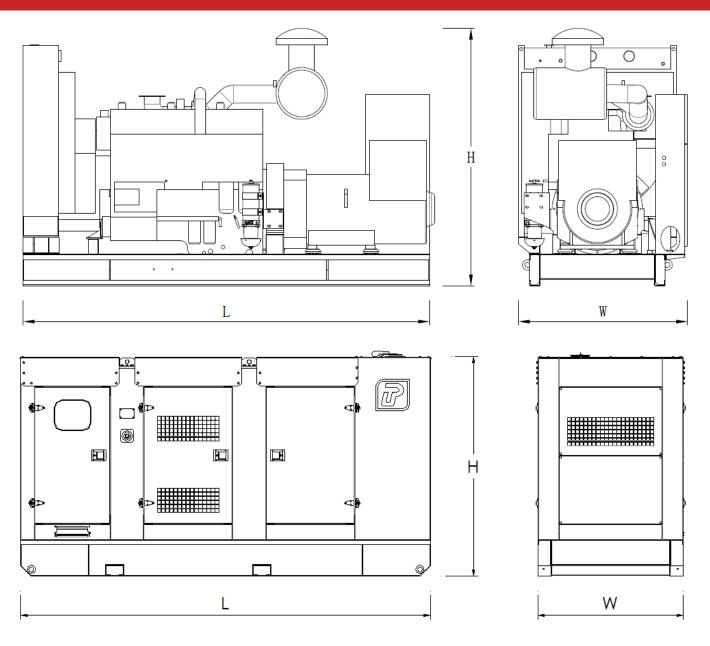
Data sheet of Genset



Gense	et		
Model	PYC200A		
Prime Rating (kw)	150		
Standby Rating (kw)	160		
Rate current(A)	271		
Power factor	0.8		
Frequency(Hz)	50		
Engin	e		
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	Turbocharged & Intercooled		
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		
Highest water temperature(℃)	97		
Minimum air opening to room (m2)	1.3/1.1		
Thermostat range (℃)	70-80		
Max oil temperature (°C)	120		
Lubrication system oil capacity (L)	21		
Rate load fuel consumption(L/H)	40.2		
Standard Governor/Class	electronic		
Emission	China Tier 2		
Alterna	tor		
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	Н		
Contro	ller		
Brand	POWERTEC		

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