



PYC2500B

Prime Power:1800KW/2250KVA Standby Power: 2000KW/2500KVA Voltage: 400V

Powered by Yuchai YC16VC3000-D31 Engine

≤3%

≤+20% ≤-15%

 \leq 1S(Voltage \pm 3%)

Genset Performance

- 230/400V, 50Hz, 0.8PF, 3 Phases 4 wires
- Frequency drop
- 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
- Frequency recovery time ≤3S
- Voltage recovery time
- THF (Telephone Harmonic Factor) <3</p>
- 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
- Circuit breaker
- 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.

PGS: PYC2500B 01/2024

Standard Configuration

- Guangxi Yuchai Engine
- Brushless synchronous alternator
- POWERTEC intelligent controller
- 40°C standard ambient temperature (50°C Optional)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- Manual book and files



Diesel Engine

- Model: YC16VC3000-D31
- High-strength material, reinforced grid structure with cambered surface, and 4-bolt main bearing structure are adopted for the engine body; thus the engine body is characterized by high stiffness, slight vibration, and lower noise.
- The world-class equipment and technologies are used for production; thus, the quality of such model is stable and reliable;
- The structure of one head for one cylinder is adopted; maintenance window is set at the side of the engine body, which ensures easy maintenance;



- Application of general parts, high serialization degree and "one-cylinder and one-head" structure, ensuring a low overall maintenance cost;
- G3 performance requirements for generator set are met;
- The YC16VC-D31 series engine is a classic product developed by Yuchai. It has the advantages of energy saving and environmental protection, excellent performance, compact structure, reliability and durability. The emission of pollutants, power performance, economy and reliability index reach the international advanced level.

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;.

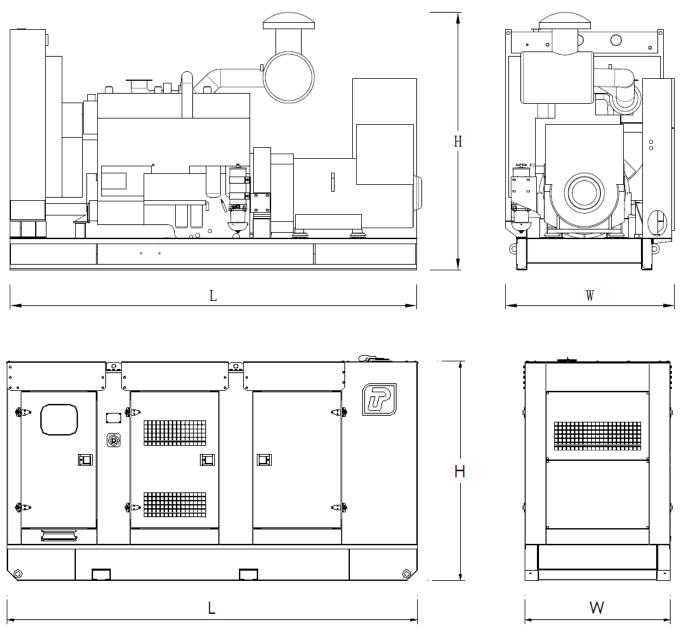
Data sheet of Genset



Genset			
Model	PYC2500B		
Prime Rating (kw)	1800		
Standby Rating (kw)	2000		
Rate current(A)	rent(A) 3248		
Power factor	0.8		
Frequency(Hz)	50		
Engine			
Engine Model	YC16VC3000-D31		
Gross Engine output-Prime (kw)	2005		
Gross Engine output-Standby (kw)	2206		
Bore * stroke (mm)	200*210		
Cylinders and structure	nders and structure 16 Cylind V-type		
Displacement(Liter)	105.56		
Compression Ratio	13.5: 1		
Intake way	Supercharge/Water-Air intercooling		
Max intake resistance (KPa)	6		
Air intake (m3/h)	11640		
Max exhaust back pressure (KPa)	e (KPa) 10		
Exhaust gas flow (m3/h)	25560		
Exhaust temp (°C)	570		
Cooling way	Water Radiator & Fan		
Fan exhaust flow (m3/min)	3600		
Coolant capacity (L)	624		
Highest water temperature(℃)	95		
Minimum air opening to room (m2) 12/10			
Thermostat range (°C) 75-85			
Max oil temperature (°C) 110			
Lubrication system oil capacity (L) 430			
Rate load fuel consumption(L/H) 493.9			
Standard Governor/Class	Electronic unit pump		
Emission	China Tier 3		
Alterr	nator		
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		
Controller			
Brand	POWERTEC		

Dimension and Weight





Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	7571*2960*3462	22950	-
Silent Type	_	_	-

Contact Us

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