



PYC3000B

Prime Power:2200KW/2750KVA Standby Power: 2400KW/3000KVA Voltage: 400V

Powered by Yuchai YC16VC3600-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.

Standard Configuration

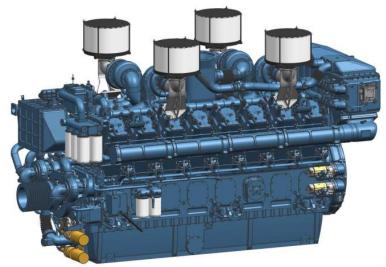
- Guangxi Yuchai Engine
- Brushless synchronous alternator
- POWERTEC intelligent controller
- 40°C standard ambient temperature (50°C Optional)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- Manual book and files





Diesel Engine

- Model: YC16VC3600-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;.

.

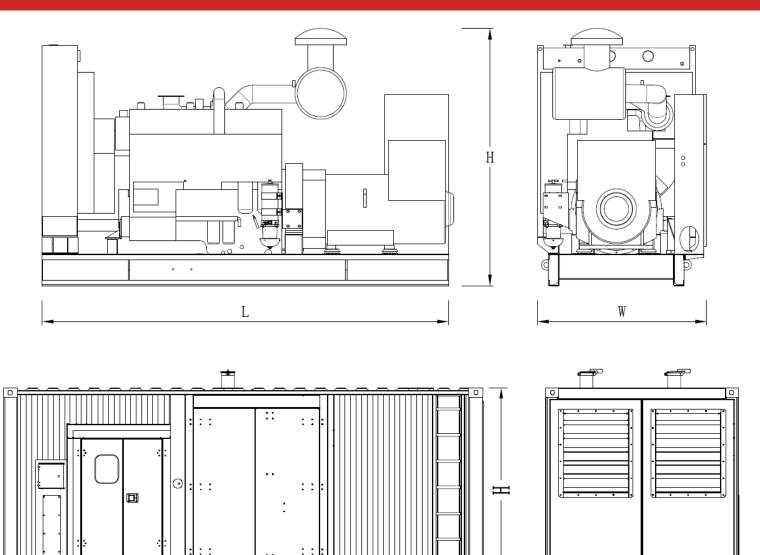
Data sheet of Genset



Genset				
Model	Model PYC3000B			
Prime Rating (kw)	2200			
Standby Rating (kw)	2400			
Rate current(A)	3969			
Power factor	0.8			
Frequency(Hz)	50			
Engine				
Engine Model	YC16VC3600-D31			
Gross Engine output-Prime (kw)	2405			
Gross Engine output-Standby (kw)	2646			
Bore * stroke (mm)	200*210			
Cylinders 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)	13200			
Max exhaust back pressure (KPa)	10			
Exhaust gas flow (m3/h)	30360			
Exhaust temp (℃)	550			
Cooling way	Water Radiator & Fan			
Fan exhaust flow (m3/min)	3600			
Coolant capacity (L)	624			
Highest water temperature(°C)	95			
Minimum air opening to room (m2)	12/10			
Thermostat range (℃)	75-85			
Max oil temperature (℃)	110			
Lubrication system oil capacity (L)	430			
Rate load fuel consumption(L/H)	594.4			
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





		0	0
	L		₩-
Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	8200*2877*3356	23900	-
Silent Type	_	_	_

: :

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

Ο