



PYC1250B

Prime Power:900KW/1125KVA Standby Power: 1000KW/1250KVA Voltage: 400V

Powered by Yuchai YC12VTD1500-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 \leq +10% \leq -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: YC12VTD1500-D31
- Four-valve design, which ensures adequate intake air; middle fuel injector, which achieves more sufficient fuel-air mixing and more complete combustion.
- Mature turbocharging and intercooling technology, which ensures adequate and stable air intake under each loading condition, and wide working range for economical fuel consumption;
- China III emission, imported ECU and high pressure common rail system, ensuring a great potential for emission upgrade;
- V-shaped cylinder block of mesh reinforcement structure and high-strength alloy crankshaft connecting rod, ensuring high reliability;



- Application of general parts, high serialization degree and "one-cylinder and one-head" structure, ensuring a low overall maintenance cost;
- The YC12VTD-D31 series engines are independently developed products combining the advanced technology of large engines at home and abroad. It adopts configurations such as electronically controlled combination pump, four valves, supercharging and intercooling, and is optimized and verified by Yuchai's advanced combustion development technology. It has the characteristics of energy saving, high efficiency, high reliability, strong loading capacity and good maintainability.

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;.

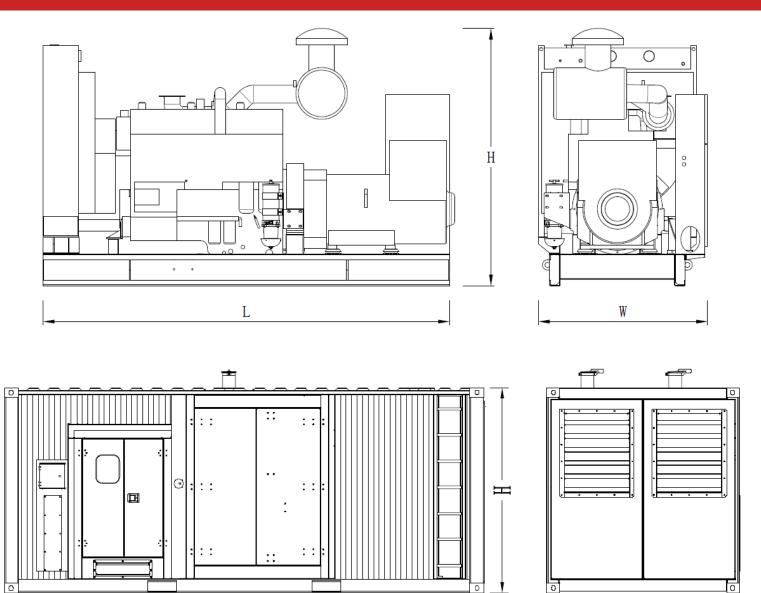
Data sheet of Genset



Genset			
Model PYC1250B			
Prime Rating (kw)	900		
Standby Rating (kw)	1000		
Rate current(A)	1624		
Power factor	0.8		
Frequency(Hz)	50		
Engine			
Engine Model	YC12VTD1500-D31		
Gross Engine output-Prime (kw)	ss Engine output-Prime (kw) 1000		
Gross Engine output-Standby (kw)	1100		
Bore * stroke (mm)	152*180		
Cylinders and structure	12 Cylind V-type		
Displacement(Liter)	39.2		
Compression Ratio	14:1		
Intake way	Supercharge/Water-Air intercooling		
Max intake resistance (KPa)	5		
Air intake (m3/h)	5004		
Max exhaust back pressure (KPa)	10		
Exhaust gas flow (m3/h)	11584		
Exhaust temp (°C)	550		
Cooling way	Water Radiator & Fan		
Fan exhaust flow (m3/min) 2050			
Coolant capacity (L)	485		
Highest water temperature(°C) 97			
Minimum air opening to room (m2) 6.7/5.6			
Thermostat range (℃) 75-85			
Max oil temperature (℃) 120			
Lubrication system oil capacity (L) 210			
Rate load fuel consumption(L/H) 252.5			
Standard Governor/Class Electronic unit pump			
Emission	China Tier 3		
Alter	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





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Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	4681*2101*2404	8300	_
Silent Type	6058*2438*2896	12500	1500

Contact Us

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