



PYC45A

Prime Power: 30KW/38KVA

Standby Power:33KW/41KVA

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%
- The transient voltage deviation ≤+20% ≤-15%

≤3S

 \leq 1S(Voltage \pm 3%)

- Frequency recovery time
- 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
- 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: YC4D60-D25
- YC4D series engines are classic power products developed by Yuchai, with high brand awareness, market recognition and large market share. YC4D60-D25 engine for generator sets has the advantages of reliability and durability, energy saving and environmental protection, compact structure, strong transient loading capacity, and good maintainability..;
- The engine body and other main structures have been tested for a long time, ensuring the high reliability of the entire machine.
- The cylinder head is designed with an integrated water outlet pipe to reduce the sealing surface and improve sealing reliability.sex;



- It adopts mature mechanical and electronic control technology to effectively control the fuel injection volume and sufficient air intake to ensure that the diesel engine has sufficient combustion and low emissions under different load conditions.
- It has good transient speed regulation and strong loading capacity, meeting the G3 performance requirements of the generator set.;
- Adopt high-efficiency filtration diesel filter, operation is more secure;
- Parts have good versatility, high degree of serialization, one cylinder and one cover structure, and low comprehensive maintenance costs.;

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;.

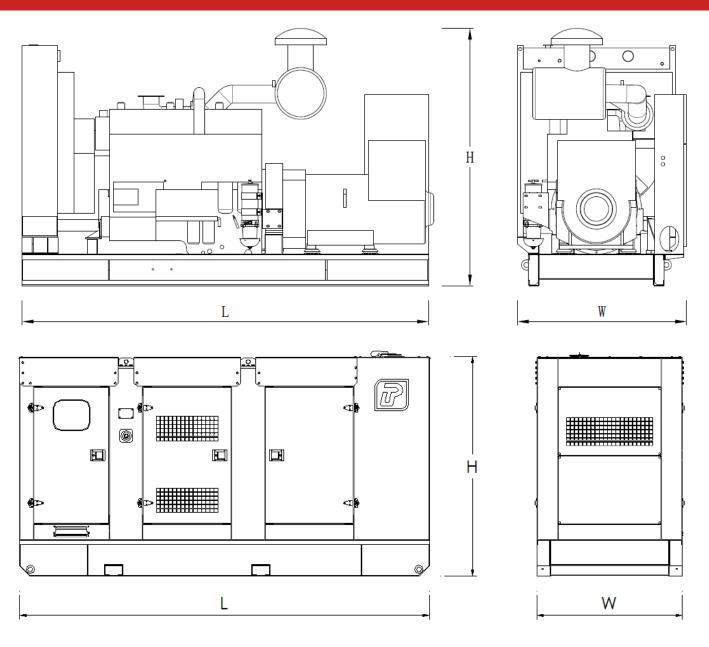
Data sheet of Genset



Gense	t		
Model	PYC45A		
Prime Rating (kw)	30		
Standby Rating (kw)	33		
Rate current(A)	54		
Power factor	0.8		
Frequency(Hz)	50		
Engine)		
Engine Model	YC4D60-D25		
Gross Engine output-Prime (kw)	40		
Gross Engine output-Standby (kw)	44		
Bore * stroke (mm)	102*118		
Cylinders and structure	4 In line		
Displacement(Liter)	3.86		
Compression Ratio	17.5:1		
Intake way	inhale naturally		
Max intake resistance (KPa)	5		
Air intake (m3/h)	150		
Max exhaust back pressure (KPa)	10		
Exhaust gas flow (m3/h)	120		
Exhaust temp (°C)	650		
Cooling way	Water Radiator & Fan		
Fan exhaust flow (m3/min)	91		
Coolant capacity (L)	22		
Highest water temperature(℃)	97		
Minimum air opening to room (m2)	0.7/0.6		
Thermostat range (°C)	70-80		
Max oil temperature (°C)	120		
Lubrication system oil capacity (L)	10		
Rate load fuel consumption(L/H)	10.5		
Standard Governor/Class	electronic		
Emission	China Tier 2		
Alternat			
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		
Controll			
Brand	POWERTEC		
Dialia			

Dimension and Weight





Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	2030*883*1253	835	110
Silent Type	2300*900*1550	1385	160

Contact Us

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