



PYC70A

Prime Power: 50KW/63KVA Standby Power:55KW/69KVA Voltage: 400V

Dawared by Vuebei VC1D007 D25 Engine

Genset Performance

- 230/400V, 50Hz, 0.8PF, 3 Phases 4 wires
- Frequency drop ≤3%
- 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 ≤+20% ≤-15%
- Frequency recovery time ≤3S
- Voltage recovery time ≤1S(Voltage±3%)
- THF (Telephone Harmonic Factor) <3
- 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

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

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



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Equipment Instruction



Diesel Engine

- Model: YC4D90Z-D25
- YC4D series engines are classic power products developed by Yuchai, with high brand awareness, market recognition and large market share. YC4D90Z-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 electric regulation + high-efficiency supercharging 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.



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Intelligent Control System



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;.

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Data sheet of Genset

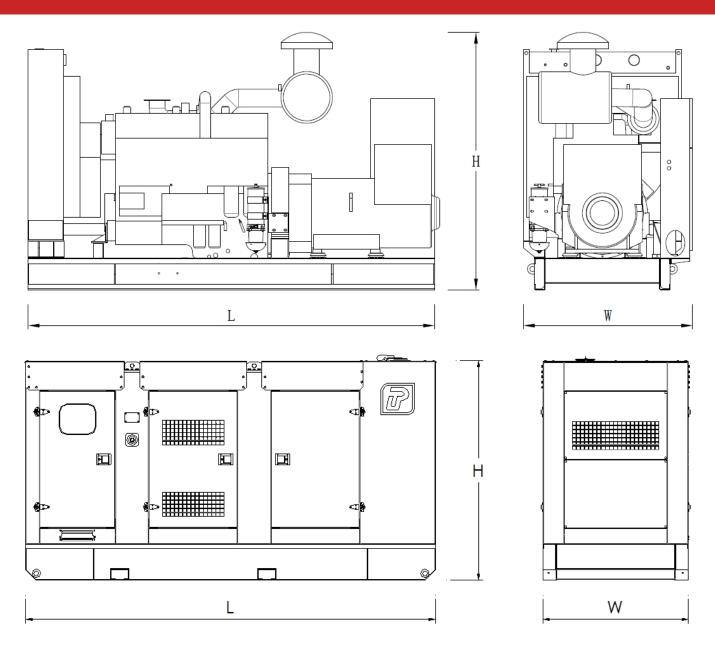


Genset				
Model	PYC70A			
Prime Rating (kw)	50			
Standby Rating (kw)	55			
Rate current(A)	90			
Power factor	0.8			
Frequency(Hz)	50			
Engine				
Engine Model	YC4D90Z-D25			
Gross Engine output-Prime (kw)	60			
Gross Engine output-Standby (kw)	66			
Bore * stroke (mm)	110*125			
Cylinders and structure	4 In line			
Displacement(Liter)	4.75			
Compression Ratio	17.5:1			
Intake way	Turbocharging			
Max intake resistance (KPa)	5			
Air intake (m3/h)	211			
Max exhaust back pressure (KPa)	10			
Exhaust gas flow (m3/h)	756			
Exhaust temp (°C)	600			
Cooling way	Water Radiator & Fan			
Fan exhaust flow (m3/min)	91			
Coolant capacity (L)	24			
Highest water temperature(℃)	97			
Minimum air opening to room (m2)	0.7/0.6			
Thermostat range (°C)	70-80			
Max oil temperature (℃)	120			
Lubrication system oil capacity (L)	11.5			
Rate load fuel consumption(L/H)	15.3			
Standard Governor/Class	electronic			
Emission	China Tier 2			
Alternator				
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			

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Dimension and Weight





Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	2100*859*1300	844	110
Silent Type	2920*1100*1750	1594	300

Contact Us

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