



# PYC25A

Prime Power: 16KW/20KVA

## Standby Power: 18KW/23KVA

## Voltage: 400V

Powered by Yuchai YCDV254FHZ-25 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

- THF (Telephone Harmonic Factor) <3
- TIF (Telephone Influence Factor) <50</li>
  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 room.

 $\leq$ 1S(Voltage $\pm$ 3%)

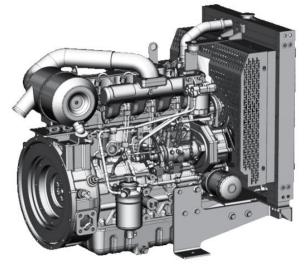
# **Standard Configuration**

- 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: YCDV254FHZ-25
- YCD4 series engines are key control subsidiaries of Guangxi Yuchai Machinery Group Co., Ltd. The model produced by Guangxi Yuchai Power Co., Ltd. is a small-bore multi-cylinder diesel engine produced by Yuchai Group. The production base of diesel engines has the annual production capacity of 300,000 units of multi-cylinder small-bore diesel engines;
- The engine has compact structure, small size, light weight and easy maintenance on one side;
- Tunnel-type linerless body has good rigidity and low oil consumption (the engine-fuel ratio is less than 0.1%);



- Electronically controlled fuel supply system, low swirl ratio air passage, multi-hole small-diameter injector, strong power, Excellent performance and good economy;
- NVH optimization, low noise and vibration, reaching the advanced level of similar international models;
- Can be relayed and remotely monitored, easy to operate; the machine filter and diesel filter are arranged on the same side, easy to maintain;
- Adopt internationally renowned brand fuel pump;

## 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;.

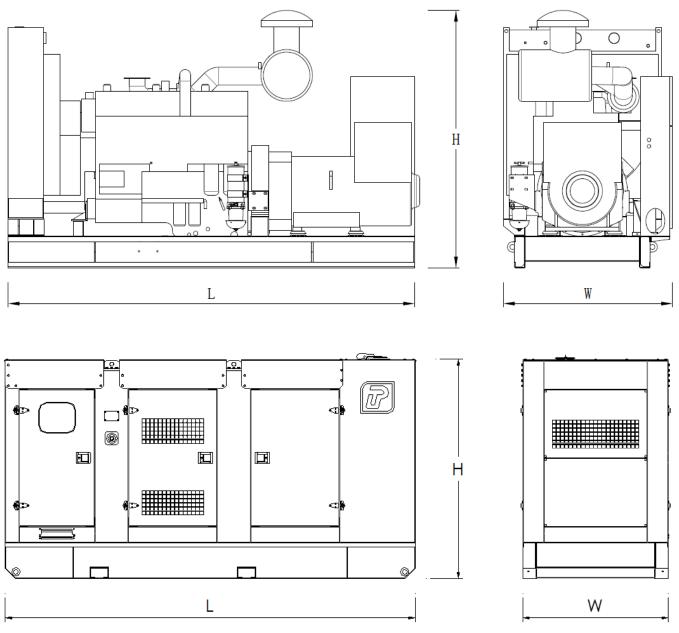
# **Data sheet of Genset**



Model      PYC25A        Prime Rating (kw)      16        Standby Rating (kw)      18        Rate current(A)      29        Power factor      0.8        Frequency(Hz)      50        Engine      VCDV254FHZ-25        Gross Engine output-Prime (kw)      20        Gross Engine output-Standby (kw)      22        Bore * stroke (mm)      89*100        Cylinders and structure      4 In line        Displacement(Liter)      2.5        Compression Ratio      17.5:1        Intake way      Turbocharge& Intercooled        Max intake resistance (KPa)      5        Air intake (m3/h)      70        Max exhaust back pressure (KPa)      10        Exhaust temp (°C)      620        Cooling way      Water Radiator & Fan        Fan exhaust flow (m3/min)      98.4        Coolant capacity (L)      10.2        Highest water temperature(°C)      95        Minium air opening to room (m2)      0.70.6        Thermostat range (°C)      125        Lubrication system oil capacity (L)      6.5        Rate load fuel c	Genset				
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Air intake (m3/h)70Max exhaust back pressure (KPa)10Exhaust gas flow (m3/h)73Exhaust temp (°C)620Cooling wayWater Radiator & FanFan exhaust flow (m3/min)98.4Coolant capacity (L)10.2Highest water temperature(°C)95Minimum air opening to room (m2)0.7/0.6Thermostat range (°C)71-95Max oil temperature (°C)125Lubrication system oil capacity (L)6.5Rate load fuel consumption(L/H)5.3Standard Governor/ClassElectronically controlled high voltage common railEmissionChina Tier 3Alternator0.8Rated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIIP21-23Insulation classH	Intake way	Turbocharged & Intercooled			
Max exhaust back pressure (KPa)    10      Exhaust gas flow (m3/h)    73      Exhaust temp (°C)    620      Cooling way    Water Radiator & Fan      Fan exhaust flow (m3/min)    98.4      Coolant capacity (L)    10.2      Highest water temperature(°C)    95      Minimum air opening to room (m2)    0.7/0.6      Thermostat range (°C)    71-95      Max oil temperature (°C)    125      Lubrication system oil capacity (L)    6.5      Rate load fuel consumption(L/H)    5.3      Standard Governor/Class    Electronically controlled high voltage common rail      Emission    China Tier 3      Alternator    0.8      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    H	Max intake resistance (KPa)	5			
Exhaust gas flow (m3/h)73Exhaust temp (°C)620Cooling wayWater Radiator & FanFan exhaust flow (m3/min)98.4Coolant capacity (L)10.2Highest water temperature(°C)95Minimum air opening to room (m2)0.7/0.6Thermostat range (°C)71-95Max oil temperature (°C)125Lubrication system oil capacity (L)6.5Rate load fuel consumption(L/H)5.3Standard Governor/ClassElectronically controlled high voltage common railEmissionChina Tier 3Alternator0.8Rated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classH	Air intake (m3/h)	70			
Exhaust temp (°C)620Cooling wayWater Radiator & FanFan exhaust flow (m3/min)98.4Coolant capacity (L)10.2Highest water temperature(°C)95Minimum air opening to room (m2)0.7/0.6Thermostat range (°C)71-95Max oil temperature (°C)125Lubrication system oil capacity (L)6.5Rate load fuel consumption(L/H)5.3Standard Governor/ClassElectronically controlled high voltage common railEmissionChina Tier 3AlternatorRated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classHController	Max exhaust back pressure (KPa)	10			
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Fan exhaust flow (m3/min)98.4Coolant capacity (L)10.2Highest water temperature(°C)95Minimum air opening to room (m2)0.7/0.6Thermostat range (°C)71-95Max oil temperature (°C)125Lubrication system oil capacity (L)6.5Rate load fuel consumption(L/H)5.3Standard Governor/ClassElectronically controlled high voltage common railEmissionChina Tier 3Alternator0.8Rated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classHControllerController	Exhaust temp (℃)	620			
Coolant capacity (L)10.2Highest water temperature(°C)95Minimum air opening to room (m2)0.7/0.6Thermostat range (°C)71-95Max oil temperature (°C)125Lubrication system oil capacity (L)6.5Rate load fuel consumption(L/H)5.3Standard Governor/ClassElectronically controlled high voltage common railEmissionChina Tier 3AlternatorRated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classHController	Cooling way	Water Radiator & Fan			
Highest water temperature(°C)    95      Minimum air opening to room (m2)    0.7/0.6      Thermostat range (°C)    71-95      Max oil temperature (°C)    125      Lubrication system oil capacity (L)    6.5      Rate load fuel consumption(L/H)    5.3      Standard Governor/Class    Electronically controlled high voltage common rail      Emission    China Tier 3      Alternator    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    H	Fan exhaust flow (m3/min)	98.4			
Minimum air opening to room (m2)    0.7/0.6      Thermostat range (°C)    71-95      Max oil temperature (°C)    125      Lubrication system oil capacity (L)    6.5      Rate load fuel consumption(L/H)    5.3      Standard Governor/Class    Electronically controlled high voltage common rail      Emission    China Tier 3      Alternator    Alternator      Qutput 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    H	Coolant capacity (L)	10.2			
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Max oil temperature (°C)125Lubrication system oil capacity (L)6.5Rate load fuel consumption(L/H)5.3Standard Governor/ClassElectronically controlled high voltage common railEmissionChina Tier 3AlternatorRated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classH	Minimum air opening to room (m2)	0.7/0.6			
Lubrication system oil capacity (L)6.5Rate load fuel consumption(L/H)5.3Standard Governor/ClassElectronically controlled high voltage common railEmissionChina Tier 3AlternatorRated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classHController	Thermostat range (℃)	71-95			
Rate load fuel consumption(L/H)5.3Standard Governor/ClassElectronically controlled high voltage common railEmissionChina Tier 3AlternatorRated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIIP21-23Insulation classHController	Max oil temperature (°C)	125			
Standard Governor/ClassElectronically controlled high voltage common railEmissionChina Tier 3AlternatorRated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classH	Lubrication system oil capacity (L)	6.5			
EmissionChina Tier 3AlternatorRated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classHController	Rate load fuel consumption(L/H)	5.3			
AlternatorRated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classH	Standard Governor/Class	Electronically controlled high voltage common rail			
Rated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classH	Emission	China Tier 3			
Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classHController	Alternator				
Rated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classHController	Rated Voltage(V)	230/400			
ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classHController	Output Way	3 Phases, 4 wires			
Max voltage regulation  ±1%    Phase  3    Protection class  IP21-23    Insulation class  H    Controller	Rated power factor	0.8			
Phase  3    Protection class  IP21-23    Insulation class  H    Controller	Exciter	Brushless, Self-exciter			
Protection class  IP21-23    Insulation class  H    Controller	Max voltage regulation	±1%			
Insulation class H Controller	Phase	3			
Controller	Protection class	IP21-23			
	Insulation class	Н			
Brand POWERTEC	Controller				
	Brand	POWERTEC			

# **Dimension and Weight**





Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	1700*800*1200	680	110
Silent Type	2300*900*1550	1250	160

# Contact Us

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