



PYC125A

Prime Power: 90KW/113KVA Standby Power: 100KW/125KVA Voltage: 400VAC

Powered by Yuchai YC4A155-D30 Engine

Genset Performance

- 230/400VAC, 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 \leq +10% \leq -15%
- The transient voltage deviation \leq +20% \leq -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.

Standard Configuration

- Guangxi Yuchai Engine
- Brushless synchronous alternator
- POWERTEC intelligent controller
- 40°C standard ambient temperature (50°C Optional)
- Molded case circuit breaker (3P)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- 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 room.





Diesel Engine

- Model: PYC125A-YC4A155-D30
- Construction: High strength alloy cast iron with better rigidity, small vibration and low noise; wet cylinder liner, easy maintenance. The engine block and other main structures have been tested for a long time to ensure the high reliability of the whole machine.
- Intake: Charge inter-cooling
- The engine body and other main structures have been long tested to ensure the high reliability of the whole machine.
- Advanced and mature electronic common rail + high efficiency booster technology is adopted to accurately control the fuel injection volume. Adequate intake to ensure that the diesel engine under different loads, full combustion, less emissions.
- Using full-flow oil cooler and heat dissipation efficiency is increased by 30%. Oil temperature is effectively reduced. Lubricating oil at a reasonable temperature is to reduce friction loss.
- The piston adopts internal cooling channel to cool oil, effectively reducing the piston temperature so as to have a long service life.
- Meet the requirement of G3 grade of genset performance.
- Conform to non-road country T3 and European S3A standards.

Engine Operating Environment Description:

The engine can work under the following conditions without modulating power:

1800r/min engine--altitude less than 1000 m, ambient temperature less than 40 $\,^{\circ}$ C 1500r/min engine--altitude less than1000 m, ambient temperature less than 40 $\,^{\circ}$ C

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.
- Sealed with advanced lubricating grease to prolong life of bearing.



Notes: Above data of alternator comes from Stamford. Specification may alternated without advance notice.



Standard

- 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 displayKPa/Psi/Bar display
- Battery voltage V
- Running Hour
- Starting timer:(999999)



Standard Protection

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;.

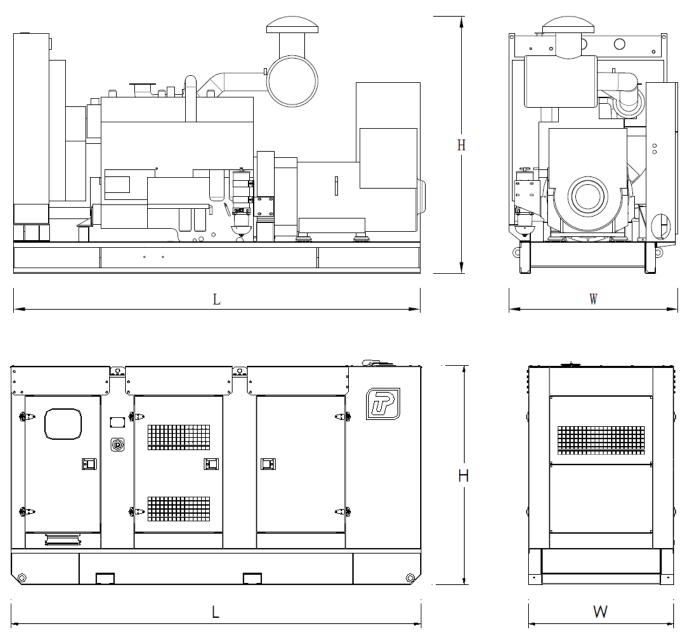
Data sheet of Genset



Genset				
Model	PYC125A			
Prime Rating (kw)	90			
Standby Rating (kw) 100				
Rate voltage(V)	400			
Rate current(A)	162			
Power factor	0.8			
Frequency(Hz)	50			
Engine				
Engine Model	YC4A155-D30			
Gross Engine output-Prime (kw)	103			
Gross Engine output-Standby (kw)	113			
Bore * stroke (mm)	108*132			
Cylinders and structure	4 In line			
Displacement(Liter)	4.837			
Compression Ratio	17.5:1			
Intake way	Supercharge/Air-air intercooling			
Max intake resistance (KPa)	5			
Air intake (m3/h)	396			
Max exhaust back pressure (KPa)	10			
Exhaust gas flow (m3/h)	1104			
Exhaust temp (°C)	550			
Cooling way	Water Radiator & Fan			
Fan exhaust flow (m3/min)	184.2			
Coolant capacity (L) 27				
Highest water temperature(°C)	97			
Minimum air opening to room (m2)	1.8/1.5			
Thormostat range (°C)	70-80			
	120			
Lubrication system oil capacity (L) 14				
Rate load fuel consumption(L/H)	27.1			
Standard Governor/Class	Electronic			
Alternator				
Rated Voltage(V)	400/230			
Output Way	3 Phases, 4 wires			
Rated power factor	0.8			
Exciter Brushless, Self-exciter				
Max voltage regulation	±1%			
Phase	3			
Protection class	ass IP21-23			
Insulation class	Н			
Controller				
Brand POWERTEC GC7110.2				

Dimension and Weight





Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	2239*924*1428	1352	200
Silent Type	2920*1100*1750	2102	400

Contact Us

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