

PYC965B

Prime Power: 700KW/875KVA Standby Power: 770KW/963KVA Voltage: 400V

Powered by Yuchai YCDV270A3H-1200 Engine

Genset Performance

- 230/400V, 50Hz, 0.8PF, 3 Phases 4 wires
- Frequency drop $\leq 3\%$
- Voltage regulation $\leq 0.3\%$
- The steady state frequency $\leq 0.5\%$
- The steady state voltage deviation $\leq \pm 1\%$
- The transient frequency deviation $\leq +10\% \leq -15\%$
- The transient voltage deviation $\leq +20\% \leq -15\%$
- Frequency recovery time $\leq 3S$
- Voltage recovery time $\leq 1S(Voltage \pm 3\%)$
- THF (Telephone Harmonic Factor) < 3
- TIF (Telephone Influence Factor) < 50
Comply to Standard NEMA MG1-22.43
- Standard equipped with ambient temperature $40^{\circ}C$
Connecting radiator
- Built-in vibration isolator with high performance on
shock absorption.
- Product standards: (1) GB/T 2820-2022 / ISO8528:2018
(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
- $40^{\circ}C$ standard ambient temperature
($50^{\circ}C$ Optional)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- Manual book and files

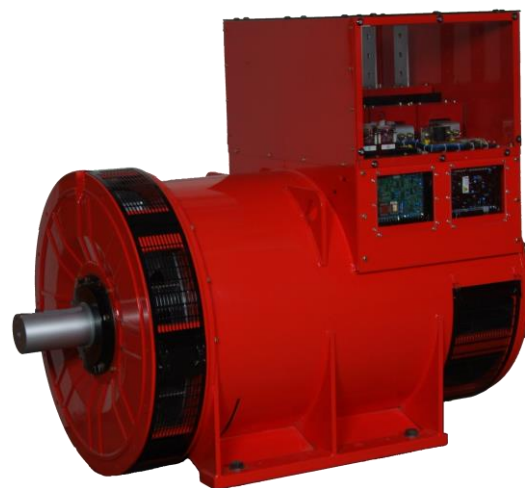
Diesel Engine

- Model: YCDV270A3H-1200
- Four-valve + supercharged intercooling + electronically controlled single-body pump technology, sufficient intake, sufficient combustion, low fuel consumption, excellent speed regulation performance, fast and powerful loading.
- Air intake: supercharged and medium cooling;
- Mesh reinforced rib structure cylinder block, double-layer water flow design cylinder head, high-strength alloy crankshaft connecting rod, high reliability;
- Good versatility of parts, high degree of serialization, one cylinder and one cover structure, low comprehensive maintenance cost;
- The YCDV270A3H-1200 engine is a product independently developed in combination with advanced technologies of large engines at home and abroad. Adopt four-valve, supercharged intercooling and other configurations, optimized and verified by Yuchai's advanced combustion development technology, and has the characteristics of energy-saving and efficient, high reliability, strong loading capacity and good maintenance..



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 satisfy tough environment.
- Rotor dynamic balancing complies for BS5625, class 2.5
- Sealed with advanced lubricating grease to prolong life of bearing.



Standard Meters

- 3 phases voltage: U_a , U_b , U_c
- Frequency $F1$
- Apparent power PR
- Power factor PF
- Coolant temperature WT
- Temperature $^{\circ}C$ display
- Oil pressure OP
- Engine speed
- 3 phases current: I_a , I_b , I_c
- Active power PA
- Power factor PF
- Temperature $^{\circ}C$ display
- KPa/Psi/Bar display
- Battery voltage V
- Running Hour
- Starting timer:(999999)



Standard Protection Function

Genset Protection

- Programmable I/O signal
- Emergency stop

Engine Protection

- Stop for over speed
- Low oil pressure
- High Coolant temperature
- Sensor fail
- Alarm for low/high battery voltage
- Low battery voltage
- Fail to start/Cranking fail

Alternator Protection

- Over Voltage
- Over current
- Voltage signal lost
- Over Voltage
- Over frequency
- Under frequency

Control System Components

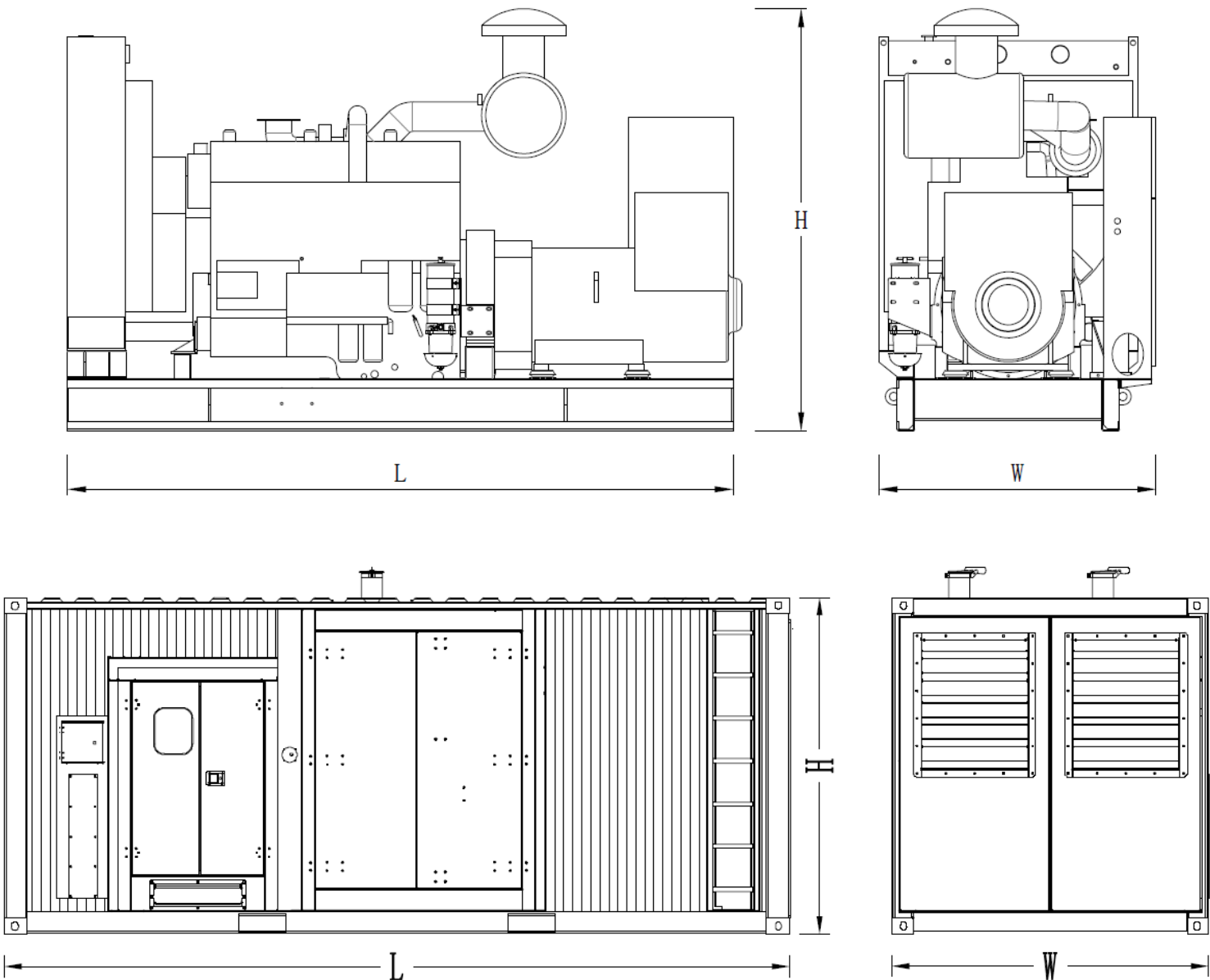
- Manual/auto/stop/start
- Setting button
- Fault status indicators
- Screen menu selection button
- Emergency stop button
- Digital displayer



Communication Interface (Option)

- International standard MODBUS communication protocol RS232/ RS485 is suitable for remote control and monitor; It is easy integrated with SCADA;.

Genset	
Model	PYC965B
Prime Rating (kw)	700
Standby Rating (kw)	770
Rate current(A)	1263
Power factor	0.8
Frequency(Hz)	50
Engine	
Engine Model	YCDV270A3H-1200
Gross Engine output-Prime (kw)	800
Gross Engine output-Standby (kw)	880
Bore * stroke (mm)	175*185
Cylinders and structure	6 In line
Displacement(Liter)	26.7
Compression Ratio	14:1
Intake way	Supercharge/Air-Air intercooling
Max intake resistance (KPa)	5
Air intake (m3/h)	3540
Max exhaust back pressure (KPa)	10
Exhaust gas flow (m3/h)	9900
Exhaust temp (°C)	550
Cooling way	Water Radiator & Fan
Fan exhaust flow (m3/min)	1600
Coolant capacity (L)	154
Highest water temperature(°C)	97
Minimum air opening to room (m2)	4.9/4.1
Thermostat range (°C)	75-85
Max oil temperature (°C)	120
Lubrication system oil capacity (L)	113
Rate load fuel consumption(L/H)	199.9
Standard Governor/Class	Electronic unit pump
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
Controller	
Brand	POWERTEC



Type	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	4321*2000*2130	7500	—
Silent Type	6058*2438*2591	11300	1500

Contact Us

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