

玉柴机器 YC DIESEL

PYC2500B

Prime Power:1800KW/2250KVA Standby Power: 2000KW/2500KVA Voltage: 400V

Powered by Yuchai YC20VTD3000-D30 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
- <+2070 <-
- 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 ℃
 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
- 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°C standard ambient temperature (50°C Optional)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- Manual book and files

Equipment Instruction



Diesel Engine

- Model: YC20VTD3000-D30
- Four-valve design, which ensures adequate intake air; middle fuel injector, which achieves more sufficient fuel-air mixing and more complete combustion.
- Mature turbocharging and intercooling technology, which ensures adequate and stable air intake under each loading condition, and wide working range for economical fuel consumption;
- China III emission, ECU and high pressure common rail system, ensuring a great potential for emission upgrade;
- V-shaped cylinder block of mesh reinforcement structure and high-strength alloy crankshaft connecting rod, ensuring high reliability;
- Application of general parts, high serialization degree and "one-cylinder and one-head" structure, ensuring a low overall maintenance cost;
- The YC20VTD-D30 engine is independently developed based on domestic and foreign advanced technologies of large engines. Equipped with the high pressure common rail system, four-valve structure, turbocharger, intercooler, etc. and optimized and verified by the advanced combustion development technology of Yuchai, the engine is characterized by high energy efficiency, reliability, loading capacity and maintainability.



- 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.



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;.

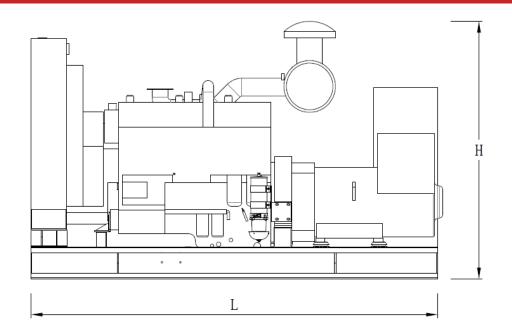
Data sheet of Genset

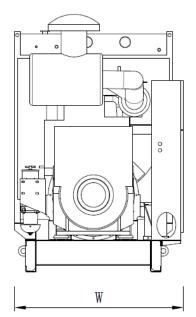


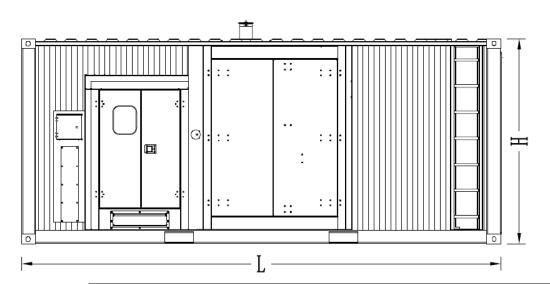
Genset				
Model	PYC2500B			
Prime Rating (kw)	1800			
Standby Rating (kw)	2000			
Rate current(A)	3248			
Power factor	0.8			
Frequency(Hz)	50			
Engine				
Engine Model	YC20VTD3000-D30			
Gross Engine output-Prime (kw)	2005			
Gross Engine output-Standby (kw)	2206			
Bore * stroke (mm)	152*180			
Cylinders and structure	20 Cylind V-type			
Displacement(Liter)	65. 3			
Compression Ratio	14:1			
Intake way	Supercharge/Water-Air intercooling			
Max intake resistance (KPa)	5			
Air intake (m3/h)	11460			
Max exhaust back pressure (KPa)	10			
Exhaust gas flow (m3/h)	25800			
Exhaust temp (°C)	550			
Cooling way	Water Radiator & Fan			
Fan exhaust flow (m3/min)	3000			
Coolant capacity (L)	676			
Highest water temperature(°C)	95			
Minimum air opening to room (m2)	7. 9/6. 6			
Thermostat range (℃)	75-85			
Max oil temperature (°C)	110			
Lubrication system oil capacity (L)	330			
Rate load fuel consumption(L/H)	492. 9			
Standard Governor/Class	Electronically controlled high voltage common rail			
Emission	China Tier 3			
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			

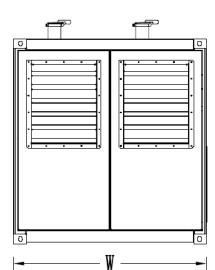
Dimension and Weight











Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	6200*2320*2820	15436	_
Silent Type	-	_	_

Contact Us

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