

玉柴机器 YC DIESEL

PYC400B

Prime Power: 300KW/375KVA Standby Power: 320KW/400KVA Voltage: 400V

Powered by Yuchai YC6MJ500-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 ≤3S

■ Voltage recovery time ≤1S(Voltage±3%)

■ 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.

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
- 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.



Equipment Instruction

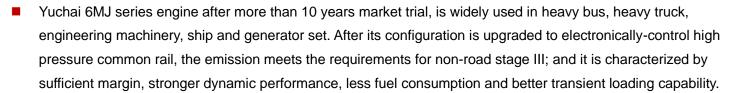


Diesel Engine

■ Model: YC6MJ500-D30

- Integral crankcase and integral cylinder head are adopted, which ensure good reliability. Wet cylinder liner is adopted, which ensures the wear resistant and easy maintenance;
- High-strength alloy crankshaft is adopted, which ensures good wear resistance, and long service life.
- The internal cooling oil passage technology is adopted for piston, which ensures high temperature resistance and good reliability;
- Advanced and mature electronically-control high pressure common rail fuel system and secondary injection technology are adopted, ensuring better dynamic performance and lower fuel consumption.





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.



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;.

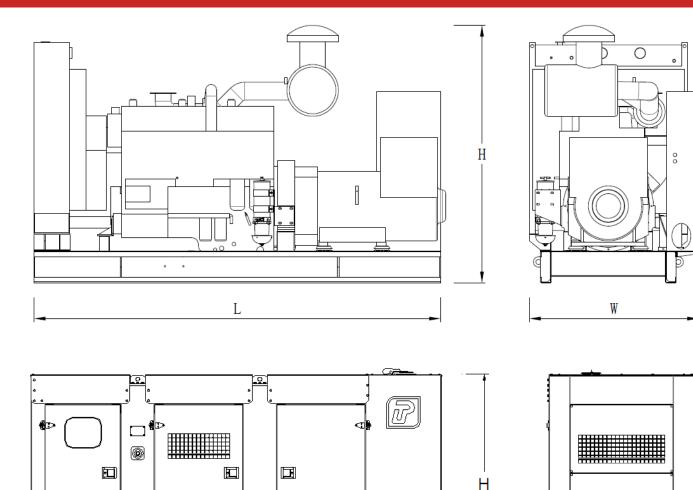
Data sheet of Genset

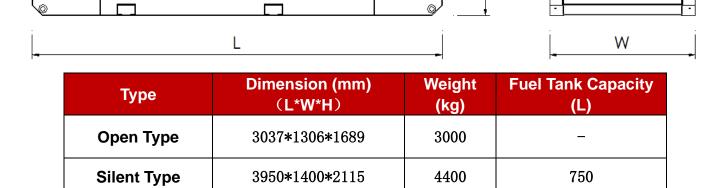


Genset	
Model	PYC400B
Prime Rating (kw)	300
Standby Rating (kw)	320
Rate current(A)	541
Power factor	0.8
Frequency(Hz)	50
Engine	
Engine Model	YC6MJ500-D30
Gross Engine output-Prime (kw)	334
Gross Engine output-Standby (kw)	367
Bore * stroke (mm)	131*145
Cylinders and structure	6 In line
Displacement(Liter)	11.726
Compression Ratio	16.8:1
Intake way	Supercharge/Air-Air intercooling
Max intake resistance (KPa)	5
Air intake (m3/h)	1374
Max exhaust back pressure (KPa)	10
Exhaust gas flow (m3/h)	3546
Exhaust temp (°C)	550
Cooling way	Water Radiator & Fan
Fan exhaust flow (m3/min)	650
Coolant capacity (L)	62
Highest water temperature(℃)	99
Minimum air opening to room (m2)	1.9/1.6
Thermostat range (℃)	80-90
Max oil temperature (℃)	120
Lubrication system oil capacity (L)	30
Rate load fuel consumption(L/H)	82
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







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