



PYC350B

Prime Power: 250KW/313KVA Standby Power: 280KW/350KVA Voltage: 400VAC

Powered by Yuchai YC6MK420L-D20 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 ≤+10% ≤-15%

≤3S

 \leq 1S(Voltage \pm 3%)

- The transient voltage deviation \leq +20% \leq -15%
- Frequency recovery time
- Voltage recovery time
- THF (Telephone Harmonic Factor) <3</p>
- TIF (Telephone Influence Factor) <50
 Comply to Standard NEMA MG1-22.43
- Built-in vibration isolator with high performance on shock absorption.

Standard Configuration

- Cummins 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

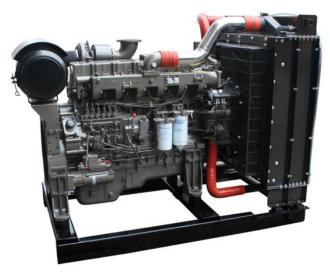
- Starting batteries
- Fuel tank
- Oil-water separator
- Sensor for low coolant level, low fuel/oil level
- Automatically monitoring & controlling system of city power
- Coolant heater
- Oil heater
- Heat exchanger--Water cooled tower system
- Soundproof canopy
- Trailer
- Design and construction of environmental protection
- Engineering for the Genset room





Diesel Engine

- Model: YC6MK350L-D20
- Construction: High strength cylinder block, reinforced crankshaft and alloy steel connecting rod make the engine more durable and have lighter and more compact structure in similar products.
- The engine body and other main structures have been long tested to ensure the high reliability of the whole machine.
- Integrated cylinder head and water outlet main pipe design, reduce sealing cover and improve sealing reliability.
- Environment: The engine can work normally under the following conditions without de-rating:
- A. 1800r/min engine--altitude less than 1500m (5000ft), ambient temperature less than 40 $\,^\circ {\rm C}\,(104^\circ\,$ F).



B. 1500r/min engine--altitude less than 1310m (4300ft), ambient temperature less than 40 ℃(104° F) But engine working environment conditions exceed above,

the engine output power will de-rate 4% as altitude increase each 300m(1000ft) at the altitude is higher than 1500m (5000ft),

Also it will de-rate 2% as temperature increase every 11 \degree C(1% de-rating ,when temperature increase each 10° F). in the ambient temperature is higher than 40°C(104° F)

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
- 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.

2

Intelligent Control System



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 display
- KPa/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;.

Notes: Above data of controller comes from POWERTEC GC6110. Customized solutions is available as required



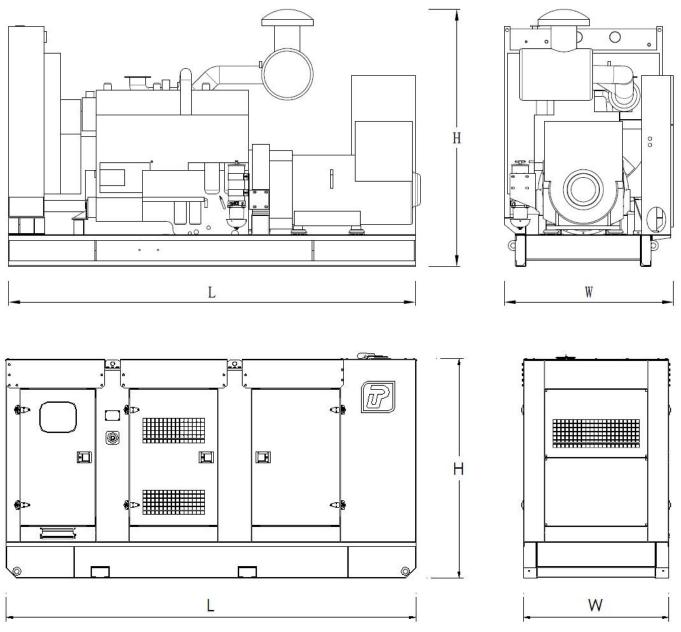
Data sheet of Genset



Genset			
Model PYC350B			
Prime Rating (kw)	250		
Standby Rating (kw)	280		
Rate voltage(V)	400		
Rate current(A)	451		
Power factor	0.8		
Frequency(Hz)	50		
Eng	ine		
Engine Model	YC6MK420L-D20		
Gross Engine output-Prime (kw)	281		
Gross Engine output-Standby (kw)	309		
Bore * stroke (mm)	123*145		
Cylinders and structure	6 In line		
Displacement(Liter)	10.34		
Compression Ratio	16.8:1		
Intake way	Turbo Charge, Air-Air Intercool		
Max intake resistance (KPa)	5		
Air intake (m3/h)	726		
Max exhaust back pressure (KPa)	10		
Exhaust gas flow (m3/h)	2460		
Exhaust temp (℃)	532		
Cooling way	Water Radiator & Fan		
Fan exhaust flow (m3/min)	240		
Coolant capacity (L)			
Highest water temperature($^{\circ}$ C)107			
Minimum air opening to room (m2) 2.3/2.1			
Thermostat range ($^{\circ}$ C)75-85			
Max oil temperature (℃)	115		
Lubrication system oil capacity (L) 30			
Rate load fuel consumption(L/H)	68.7		
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	IP21-23		
Insulation class	Н		
Controller			
Brand POWERTEC or DEEPSEA			

Dimension and Weight





Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	2929*1244*1722	2345	-
Silent Type	3950*1400*2115	3585	600

Contact Us

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