



PYC1690B

Prime Power:1200KW/1500KVA Standby Power: 1350KW/1688KVA Voltage: 400VAC

≤0.3%

Powered by Yuchai YC12VTD2000-D30 Engine

Genset Performance

- 230/400VAC, 50Hz, 0.8PF, 3 Phases 4 wires
- Frequency drop ≤3%
- Voltage regulation
- 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
- 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.

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.

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

Diesel Engine

- Model: PYC1690B-YC12VTD2000-D30
- Construction:High strength cylinder block, alloy forged steel crankshaft, alloy steel connecting rod and internal cooling oil pipe piston make the engine more durable.
- Intake: Charge inter-cooling
- Four valves + pressurized intercooling technology, sufficient air intake, full combustion and low fuel consumption.
- High pressure common rail fuel injection system, excellent speed regulation performance, fast and powerful loading (5S).



- The engine body is made of high-strength material, with cambered reinforcement mesh structure and 4-bolt main bearing structure. High stiffness, small vibration and low noise.
- The crankshaft is extruded with high quality alloy steel. Shaft diameter and fillet are hardened by heat treatment, making them anti-wear and long service life.
- World-class equipment and technology production; stable and reliable quality.
- Supporting dual-energy startup.
- One cylinder and one lid structure, with maintenance window on the side of the machine body for easy maintenance. Conform to non-road country T3 and European S3A standards.

Engine Operating Environment Description:

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

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

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 with BS5625, class 2.5
- Sealed with advanced lubricating grease to prolong life of bearing.



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

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



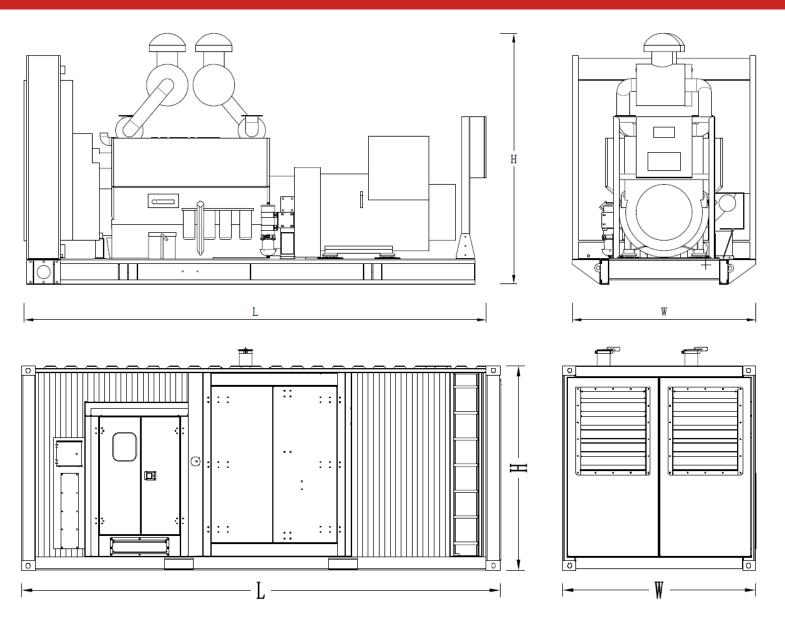
Data sheet of Genset



Genset		
Model	PYC1690B	
Prime Rating (kw)	1200	
Standby Rating (kw)	1350	
Rate voltage(V)	400	
Rate current(A)	2165	
Power factor	0.8	
Frequency(Hz)	50	
Eng	ine	
Engine Model	YC12VTD2000-D30	
Gross Engine output-Prime (kw)	1345	
Gross Engine output-Standby (kw)	tandby (kw) 1480	
Bore * stroke (mm)	152*180	
Cylinders and structure	12 V-Type	
Displacement(Liter)	39.2	
Compression Ratio	14: 1	
Intake way	Supercharge/Water-Air intercooler	
Max intake resistance (KPa)	5	
Air intake (m3/h)	5250	
Max exhaust back pressure (KPa)	10	
Exhaust gas flow (m3/h)	12348	
Exhaust temp (°C)	550	
Cooling way	Water Radiator & Fan	
Fan exhaust flow (m3/min)	2430	
Coolant capacity (L)	419	
Highest water temporature(%)	97	
Minimum air opening to room (m2)	8.0/7.2	
Thermostat range (°C)	75-85	
Max ail temporature (°C)	120	
Lubrication system oil capacity (L)	210	
Rate load fuel consumption(L/H)	338.6	
Standard Governor/Class	Electronic Control High Pressure Common Rail	
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 GC7110.2	

Dimension and Weight





Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	4637*2715*2633	9500	-
Silent Type	-	-	-

Contact Us

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