



PCC1875B

Prime Power: 1340KW/1675KVA Standby Power: 1500KW/1875KVA Voltage: 400VAC

Powered by Cummins KTA50-G15 Engine

Genset Performance

	230/400VAC,	50Hz.	0.8PF. 3	Phases 4	wires
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Frequency drop ≤3%Voltage regulation ≤0.3%

■ Voltage regulation <0.5%

The steady state frequency ≤0.5%The steady state voltage deviation ≤±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

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
- 20GP or 40HQ container type canopy
- Design and construction of environmental protection
- Engineering for the Genset room



Equipment Instruction



Diesel Engine

- Model: Cummins KTA50-G15
- Construction: replaceable wet type cylinder block has excellent radiation. Mature standard spare parts commonly apply to other engine in this series. Cylinder block and head will have no fault with the designment of internal oil passage and compact structure
- Cooling system: Adopt gear centrifugal water pump to cool down water temperature. With large flow channel designmeng, it has good cooling performance;
- Fuel system: Cummins patented technology (PT) fuel system optimizes combustion and reduces emission;
- 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 °C (104° F).
- B. 1500r/min engine--altitude less than 1310m (4300ft), ambient temperature less than 40 $^{\circ}$ C(104 $^{\circ}$ 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 $^{\circ}$ C(1% de-rating ,when temperature increase each 10 $^{\circ}$ F). in the ambient temperature is higher than 40 $^{\circ}$ C(104 $^{\circ}$ F)



- 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.





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

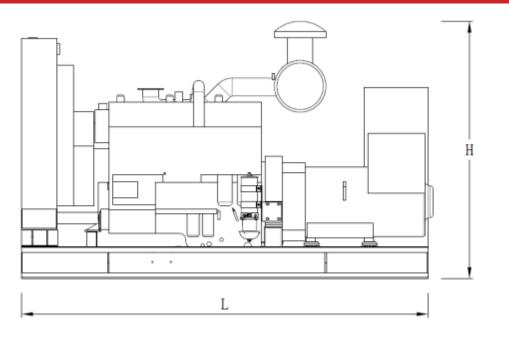
Data sheet of Genset

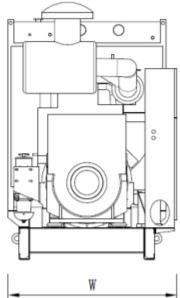


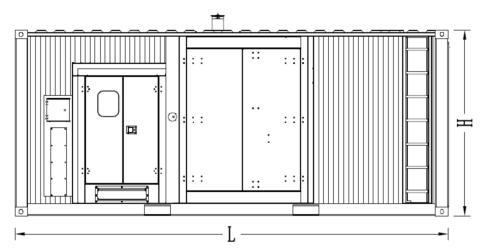
Genset						
Model	PCC1875B					
Prime Rating (kw)	1340					
Standby Rating (kw)	1500					
Rate voltage(V)	400					
Rate current(A)	2418					
Power factor	0.8					
Frequency(Hz)	50					
Engine						
Engine Model	KTA50-G15					
Gross Engine output-Prime (kw)	1491					
Gross Engine output-Standby (kw)	1657					
Bore * stroke (mm)	159*159					
Cylinders and structure	16 in V-type					
Displacement(Liter)	50.3					
Compression Ratio	13.9:1					
Intake way	Turbocharged/Water-Air intercooler					
Max intake resistance (KPa)	6.23					
Air intake (m3/h)	6271					
Max exhaust back pressure (KPa)	5					
Exhaust gas flow (m3/h)	16362					
Exhaust temp (°C)	540					
Cooling way	Water Radiator & Fan					
Fan exhaust flow (m3/min)	1800					
Coolant capacity (L)	398					
	104					
Minimum air opening to room (m2)	9.5/9.0					
Thormostat range (°C)	82-93					
May oil tamparature (°C)	121					
Lubrication system oil capacity (L)	204					
Rate load fuel consumption(L/H)	342					
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 GC6110					

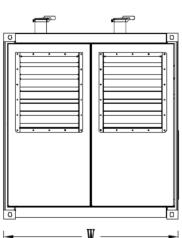
Dimension and Weight











Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	5919*2294*2646	12500	-
Silent Type	12192*2438*2896	19300	2000

Contact Us

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