



PCC800B

Prime Power: 580KW/725KVA Standby Power: 640KW/800KVA Voltage: 400VAC Powered by Cummins KT38-GA 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 ≤±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

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Engineering for the Genset room



Equipment Instruction



Diesel Engine

- Model: Cummins KT38-GA
- 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 °C(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 °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.

Intelligent Control System



Standard Me-

- 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 Func-Genset Protection Programmable I/O signal Emergency stop **Engine Protection** Stop for over speed Alarm for low/high battery voltage Low oil pressure Low battery voltage High Coolant temperature Fail to start/Cranking fail Sensor fail Alternator Protection Over Voltage Over Voltage Over current Over frequency Voltage signal lost Under frequency **Control System Components** Manual/auto/stop/start Screen menu selection button Setting button Emergency stop button Fault status indicators 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



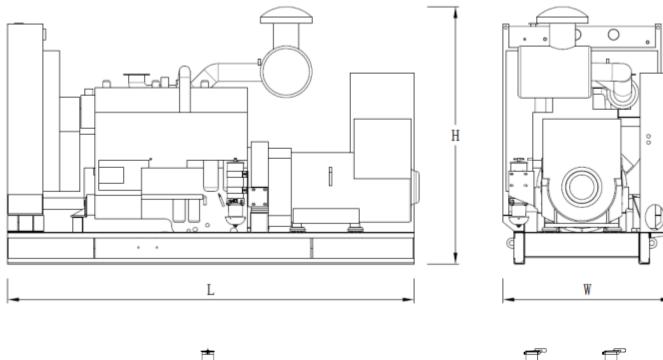
Data sheet of Genset

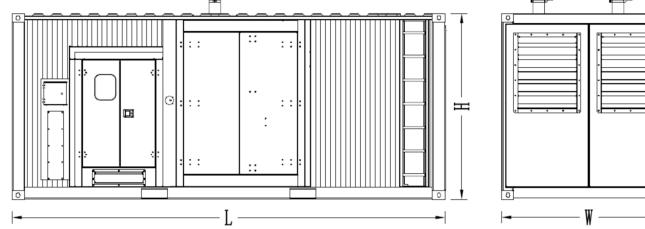


Genset				
Model	PCC800B			
Prime Rating (kw)	580			
Standby Rating (kw)	640			
Rate voltage(V)	400			
Rate current(A)	1046			
Power factor	0.8			
Frequency(Hz)	50			
Engine				
Engine Model	KT38-GA			
Gross Engine output-Prime (kw)	647			
Gross Engine output-Standby (kw)	711			
Bore * stroke (mm)	159*159			
Cylinders and structure	12 In V-type			
Displacement(Liter)	38			
Compression Ratio	14.5:1			
Intake way	Turbocharged/Air-Air intercooler			
Max intake resistance (KPa)	6.23			
Air intake (m3/h)	2887			
Max exhaust back pressure (KPa)	10			
Exhaust gas flow (m3/h)	8428			
Exhaust temp (°C)	543			
Cooling way	Water Radiator & Fan			
Fan exhaust flow (m3/min)	1140			
Coolant capacity (L)	303			
Highest water temperature(°C)	104			
Minimum air opening to room (m2)				
Thermostat range (°C)	82-93			
Max oil temperature (°C)	121			
Lubrication system oil capacity (L)	.) 135			
Rate load fuel consumption(L/H)	184			
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	4250*1794*2524	6759	-
Silent Type	6058*2438*2591	10559	1500

Contact Us

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