



### **PCC640B**

Prime Power: 450KW/563KVA Standby Power: 510KW/638KVA Voltage: 400V

Powered by Cummins KTA19-G8E 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
- TIF (Telephone Influence Factor) <50</li>
  Comply to Standard NEMA MG1-22.43
- Built-in vibration isolator with high performance on shock absorption.

## **Optional Items**

- Starting batteries
- Fuel tank
- Lubricate-water separator
- Sensor for low coolant level, low fuel/oil level
- City power monitoring & controlling system
- Coolant heater
- Oil heater
- Heat exchanger--Water cooled tower system
- Soundproof canopy
- Trailer Type
- Environmentally design and construction of Genset room engineering for the Genset room

## **Standard Configuration**

- Cummins 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

## **Equipment Instruction**



## **Diesel Engine**

- Model: KTA19-G8E
- Structure: 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;
- The engine may be operated at : 1800 RPM up to 5000 ft. (1500 m) and 104° F (40 °C) without power deration. 1500 RPM up to 5000 ft. (1500 m) and 104 ° F (40 °C) without power deration. For sustained operation above these conditions, derate by 4% per 1,000 ft.(300 m), and 1% per 10 ° F (2% per 11 °C).



- Optional brands: Stamford / Marathon / Faraday / Engga / Mecc Alt
- Brushless, 4 pole rotating magnetic field, single bearing with a protection 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.



## **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**

Program alarm and status input

#### **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**

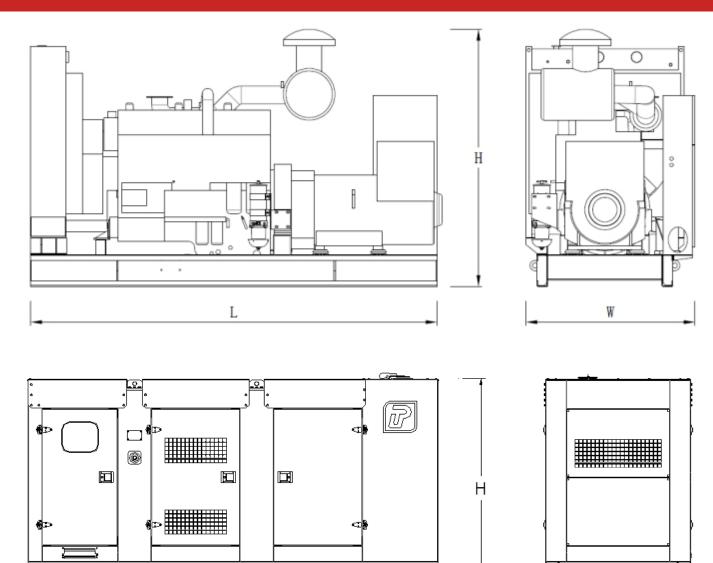


 Genset		
Model PCC640B		
Prime Rating (kw)	450	
Standby Rating (kw)	510	
Rate current(A)	812	
Power factor	0.8	
Frequency(Hz)	50	
Engine		
Engine Model	KTA19-G8E	
Gross Engine output-Prime (kw)	495	
Gross Engine output-Standby (kw)	561	
Bore * stroke (mm)	159*159	
Cylinders and structure	6 In line	
Displacement(Liter)	19	
Compression Ratio	14.7:1	
Intake way	Turbocharged/Water-Air intercooler	
Max intake r√ esistance (KPa)	6.23	
Air intake (m3/h)	8809	
Max exhaust back pressure (KPa)	5	
Exhaust gas flow (m3/h)	9180	
Exhaust temp (°C)	490	
Cooling way	Water Radiator & Fan	
Fan exhaust flow (m3/min)	960	
Coolant capacity (L)	99	
Highest water temperature(°C)	96	
Minimum air opening to room (m2)	3.0/2.5	
Thermostat range (°C)	82-95	
Max oil temperature (°C)	121	
Lubrication system oil capacity (L)	50	
Rate load fuel consumption(L/H)	122	
Standard Governor/Class	Electronic	
Emission	Provide non-road China III emission reports	
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%	
Protection class	IP21-23	
Insulation class	Н	
Controller		
Brand	POWERTEC	

# **Dimension and Weight**



W



Туре	Dimension (mm) (L*W*H)	Weight (kg)
Open Type	3550*1550*2084	4000
Silent Type	4700*1700*2450	5950

## **Contact Us**

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