

PCC650B

Prime Power: 440KW/550KVA Powered by Cummins KTAA19-G6

Standby Power: 484KW/605KVA Engine Voltage: 400V

Genset Performance

- 230/400V, 50Hz, 0.8PF, 3 Phases 4 wires
- Frequency drop
- Voltage regulation ≤0.3%
- The steady state frequency ≤0.5%
- The steady state voltage deviation $\leq \pm 1\%$
- The transient voltage deviation ≤+20% ≤-15%
- Frequency recovery time ≤3S
- Voltage recovery time ≤1S(Voltage±3%)
- 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)
- 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

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 Design and construction of environmental protection engineering for the Genset room







Equipment Instruction



Diesel Engine

- Model: KTAA19-G6
- 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;



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).

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.



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

Communication Interface

- 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



(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 PCC650B Prime Rating (kw) 460 Standby Rating (kw) 520 Rate voltage(V) 400 Rate current(A) 830 Power factor 0.8 Frequency(Hz) 50 Engine Engine Model KTAA19-G6 Gross Engine output-Prime (kw) 520 Gross Engine output-Standby (kw) 570 Bore * stroke (mm) 159*159 Cylinders and structure 6 In line 19 Displacement(Liter) **Compression Ratio** 13.9:1 Turbocharged/Air-to-Air Cooled Intake way Max intake resistance (KPa) 6.23 Air intake (m3/h) 2243 10 Max exhaust back pressure (KPa) Exhaust gas flow (m3/h) 6696 433 Exhaust temp (°C) Water Radiator & Fan Cooling way Fan exhaust flow (m3/min) 960 118.5 Coolant capacity (L) Highest water temperature(°C) 96 Minimum air opening to room (m2) 3.0/2.5 Thermostat range (°C) 82-93 Max oil temperature (°C) 121 Lubrication system oil capacity (L) 50 Rate load fuel consumption(L/H) 134 Standard Governor/Class Electronic Alternator

Rated Voltage(V)

230/400

POWERT Powertec Generator Syst

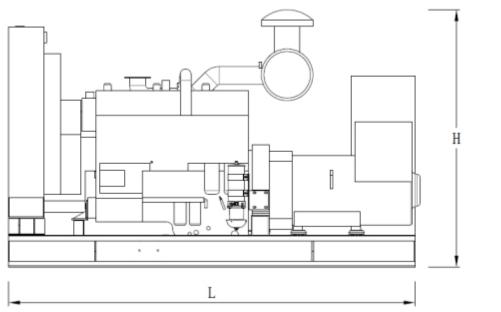
Output Way	3 Phases, 4 wires	
Rated power factor	0.8	
 Exciter	Brushless, Self-exciter	
 Max voltage regulation	±1%	
 Phase	3	
 Protection class	IP21-23	
 Insulation class	Н	
 Cont	roller	

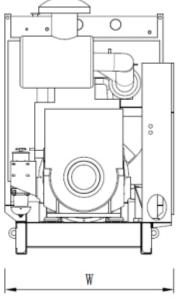
Brand

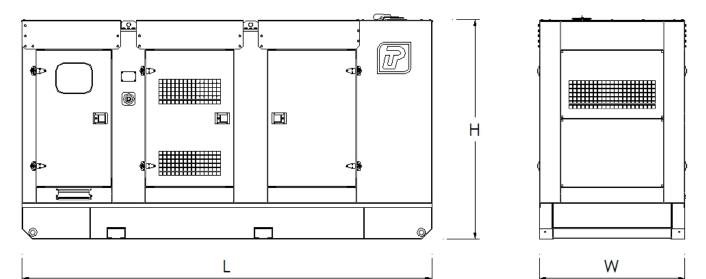
POWERTEC

Dimension and Weight









Туре	Dimension (mm)	Weight	Fuel Tank Capacity
	(L*W*H)	(kg)	(L)
Open Type	3550*1550*2084	4000	_

Contact Us

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