



PCC635B

Prime Power: 420KW/525KVA Standby Power: 505KW/632KVA Voltage: 400V

Powered by Cummins KTAA19-G5 Engine

Genset Performance

	230/400V,	50Hz, 0.8PF, 3 Phases 4	wires
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■ 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
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
- Design and construction of environmental protection engineering for the Genset room



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Equipment Instruction



Diesel Engine

- Model: Cummins KTAA19-G5
- Structure: Replaceable wet cylinder liner, good heat dissipation effect, easy to replace; all model parts have strong versatility, high degree of serialization, and easy maintenance; both the cylinder block and cylinder head adopt built-in pressure lubrication oil passages, with compact structure and easy to troubleshoot Low rate.
- Cooling system: forced water cooling by gear centrifugal water pump, large flow water channel design, good cooling effect; spin-on water filter and special DCA additive can effectively prevent rust and cavitation, control coolant acidity and remove impurities.
- Fuel system: Cummins patented PT fuel system optimizes ombustion and provides surging power; The STC distributed timing system ensures better combustion under all working conditions; it adopts a low-pressure fuel supply system and is equipped with a one-way fuel circuit, which is safe and reliable.



- ◆ Lubrication system: all moving parts are forced lubrication; large-capacity gear pump provides pressure lubricant Lubricate bearings and cool pistons; oil coolers, full-flow filters, and bypass filters maintain good oil condition.
- 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 2.5
- Sealed with advanced lubricating grease to prolong life of bearing



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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;.

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Data sheet of Genset



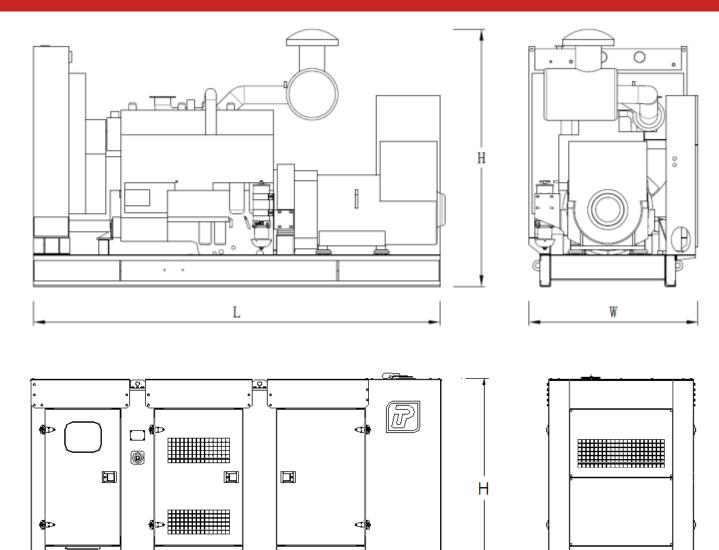
Genset						
Model	PCC635B					
Prime Rating (kw)	420					
Standby Rating (kw)	505					
Rate voltage(V)	400					
Rate current(A)	758					
Power factor	0.8					
Frequency(Hz)	50					
Engine						
Engine Model	KTAA19-G5					
Gross Engine output-Prime (kw)	470					
Gross Engine output-Standby (kw)	555					
Bore * stroke (mm)	159*159					
Cylinders and structure	6 In line					
Displacement(Liter)	19					
Compression Ratio	13.9:1					
Intake way	Turbocharged/Air-to-Air Cooled					
Max intake resistance (KPa)	6.23					
Air intake (m3/h)	1998.5					
Max exhaust back pressure (KPa)	10					
Exhaust gas flow (m3/h)	6390					
Exhaust temp (°C)	420					
Cooling way	Water Radiator & Fan					
Fan exhaust flow (m3/min)	960					
Coolant capacity (L)	117.7					
Highest water temperature(℃)	96					
Minimum air opening to room (m2)	3.0/2.5					
Thermostat range (℃)	82-93					
Max oil temperature (°C)	121					
Lubrication system oil capacity (L)	50					
Rate load fuel consumption(L/H)	115					
Standard Governor/Class	Electronic					
Altern	nator					
Rated Voltage(V)	230/400					
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					

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Dimension and Weight



W



Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	3318*1550*2096	4000	_
Silent Type	4700*1700*2450	5950	1100

Contact Us

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