



### PCC900B

Prime Power: 655KW/819KVA Standby Power:720KW/900KVA Voltage: 400V

Powered by Cummins QSK19-G34 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
- Circuit breaker
- 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
- 20HQ Container Type 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)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- Manual book and files

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# **Equipment Instruction**



## **Diesel Engine**

- Model: QSK19-G34
- 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.
- Intake and exhaust: The efficient Holset exhaust gas supercharger further improves combustion; the pressure-type pulse exhaust pipe can make full use of exhaust gas energy and improve engine efficiency; intercooling tezchnology ensures better fuel economy and emissions.
- 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: Using the world's leading high-pressure common rail fuel system and fully electronic control module, ultra-high fuel injection pressure.
- Lubricating oil system: pre-lubrication system, Centriguard centrifugal filter and CENTINEL continuous oil renewal system, two-stage combined Fleetguard oil filter, which can obtain a longer maintenance cycle and reduce theengine startup failure rate.
- Emissions compliance:

The improved combustion chamber shape allows the engine to achieve excellent emission levels without the need for post-processing, and has passed China's non-road stage three emission certification.

#### **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.





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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 <sup>®</sup> 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;

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# **Data sheet of Genset**

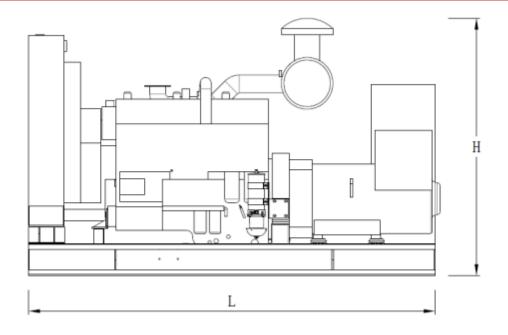


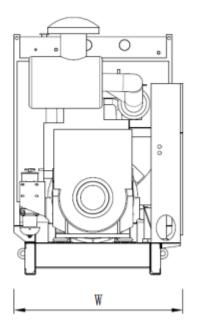
Genset			
Model	PCC900B		
Prime Rating (kw)	655		
Standby Rating (kw)	720		
Rate current(A)	1182		
Power factor	0.8		
Frequency(Hz)	50		
Engine			
Engine Model	QSK19-G34		
Gross Engine output-Prime (kw)	724		
Gross Engine output-Standby (kw)	801		
Bore * stroke (mm)	159*159		
Cylinders and structure	6 In Line		
Displacement(Liter)	18.9		
Compression Ratio	14.2:1		
Intake way	Turbocharged and Charge Air Cooled		
Max intake r、esistance (KPa)	6.2		
Air intake (m3/h)	3618		
Max exhaust back pressure (KPa)	10.1		
Exhaust gas flow (m3/h)	7877		
Exhaust temp (°C)	405		
Cooling way	Water Radiator & Fan		
Fan exhaust flow (m3/min)	1055		
Coolant capacity (L)	130		
Highest water temperature(°C)	104		
Minimum air opening to room (m2)	5.4/4.5		
Thermostat range (°C)	83-95		
Max oil temperature (℃)	121		
Lubrication system oil capacity (L)	83		
Rate load fuel consumption(L/H)	171.2		
Standard Governor/Class	Programmed Fuel Injection		
Emission	China Tier 3		
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		

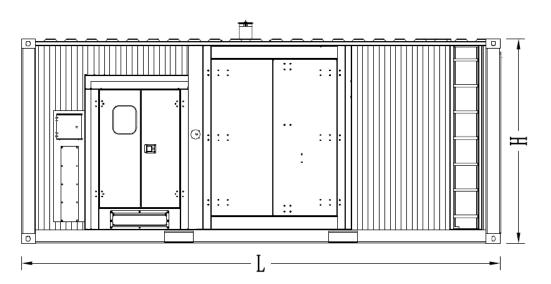
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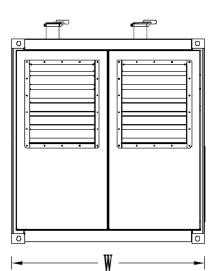
# **Dimension and Weight**











Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	4100*1893*2379	5000	-
Silent Type	6058*2438*2591	9200	1500

# **Contact Us**

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