

PCC500B

Prime Power: 364KW/455KVA



Powered by Cummins QSK19-G15 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 \leq +10% \leq -15%
- The transient voltage deviation ≤+20% ≤-15%

≤3S

- Frequency recovery time
- 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.

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





Diesel Engine

Model: **QSK19-G15**

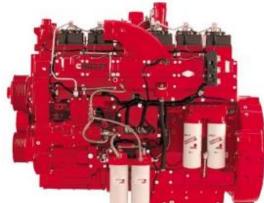
- Structure: Replaceable wet cylinder liner, good heat dissipation effect, easy to replace; all model parts have strong versatility, high degree of serialization, and easy maintenance; both the cylinder block and cylinder head adopt built-in pressure lubrication oil passages, with compact structure and 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.





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)

Emergency stop

Low battery voltage

Fail to start/Cranking fail

Alarm for low/high battery voltage



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

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;.



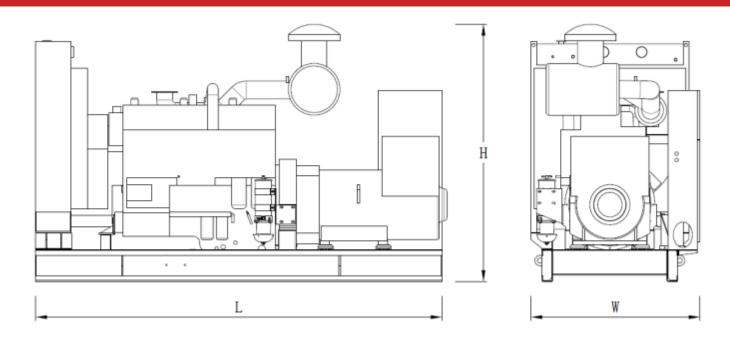
Data sheet of Genset

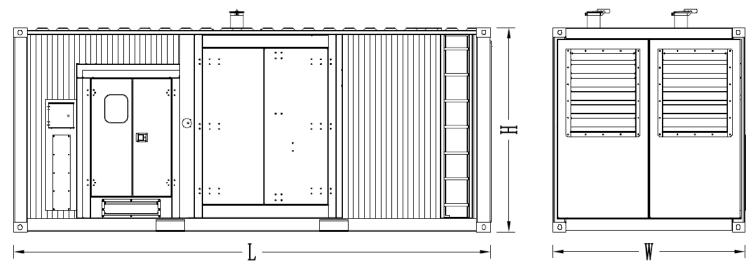


Model PCC500B Prime Rating (kw) 364 Standby Rating (kw) 400 Rate voltage(V) 400 Rate current(A) 657 Power factor 0.8 Frequency(Hz) 50 Engine Engine Engine output-Prime (kw) 405 Gross Engine output-Standby (kw) 448 Bore * stroke (mm) 159*159 Cylinders and structure 6 In line Displacement(Liter) 14.3:1 Intake way Turbocharged and Charge Air Cooled Max intake r. esistance (KPa) 6.2 Air intake (m3/h) 2286 Max exhaust back pressure (KPa) 6.8 Exhaust gas flow (m3/min) 99 Cooling way Water Radiator & Fan Fan exhaust flow (m3/min) 960 Coolant capacity (L) 99 Highest water temperature (C) 33/2.7 Thermostat range (C) 121 Lubrication system oil capacity (L) 84 Rate load fuel consumption(L/H) 105 Stan	Genset			
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Max voltage regulation ±1% Protection class IP21-23 Insulation class H Controller	Rated power factor	0.8		
Protection class IP21-23 Insulation class H Controller	Exciter	Brushless, Self-exciter		
Insulation class H Controller	Max voltage regulation	±1%		
Controller	Protection class	IP21-23		
	Insulation class	Н		
Brand POWERTEC	Controller			
	Brand	POWERTEC		

Dimension and Weight







Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	3400*1560*2018	4000	-
Silent Type	6058*2438*2896	8200	1500

Contact Us

Powertec Generator System Inc.

Add:	Danshui Yanna Industry Zone, Huiyang, Huizhou, Guangdong, China
Tel:	+86 752-3911119 / 3911118
Fax:	+86 752-3911110
Web:	www.powertec.com.cn
Email:	powertec@powertec.com.cn