



Model: PCC500B

Prime Power: 364KW/455KVA Standby Power: 400KW/500KVA Voltage: 400VAC

Powered by Cummins QSK19-G15 Engine

Genset Performance

◆ 230/400VAC, 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 ≤±1%

◆ The transient frequency deviation ≤+10% ≤-7%

◆ 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

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
- Trailers
- ◆ 20GP or 40HQ container type canopy

Standard Configuration

- Cummins Engine
- ◆ Brushless synchronous alternator
- ◆ POWERTEC intelligent controller
- ◆ 40°C standard ambient temperature(50°C Optional)
- ◆ Molded case circuit breaker (3P)
- ◆ Float battery charger
- Battery connect wire
- ◆ Steel base frame
- ◆ Silencer, bellows, exhaust bend
- Manual book and files

Equipment Instruction



柴油发动机性能描述

- ♦ Model: Cummins 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 technology 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 the engine 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 2.5
- Sealed with advanced lubricating grease to prolong life of bearing

Note: Above data of alternator comes from Stamford. Specification may alternated without advance notice.



Standard detection

- ◆3 phases voltage: Ua, Ub, Uc
- ◆Frequency F1
- ◆Apparent power PR
- ◆Coolant temperature WT
- ♦Oil pressure OP
- ◆Engine speed
- ◆Running Hour
- ◆Starting timer:(999999)

- ◆3 phases current: La, Lb, L
- ◆ Active power PA
- ◆Power factor PF
- ◆ Temperature °C display
- ◆KPa/Psi/Bar display
- ◆Battery voltage V



Standard protection

Genset Protection

◆Programmable I/O signal

◆Emergency stop

Engine Protection

- ◆Stop for over speed
- ◆Low oil pressure
- ◆High Coolant temperature
- ◆Sensor fail

- ◆Alarm for low/high battery voltage
- ◆Low battery voltage
- ◆Fail to start/Cranking fail

Alternator Protection

- ◆Over Voltage
- **♦**Over current
- ♦ Voltage signal lost

- ◆Over Voltage
- ◆Over frequency
- ♦ Voltage signal lost

Control System Components

- ◆Manual/auto/stop/start
- ◆Setting button
- ◆Fault status indicators
- ◆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;

Notes: Above data of controller comes from POWERTEC GC7110.2. Customized solutions is available as required!

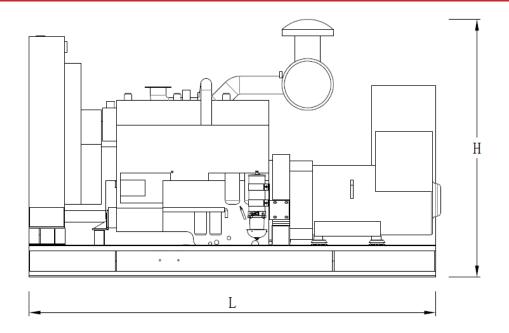
Data sheet of Genset

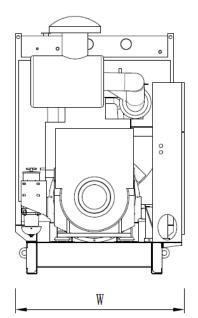


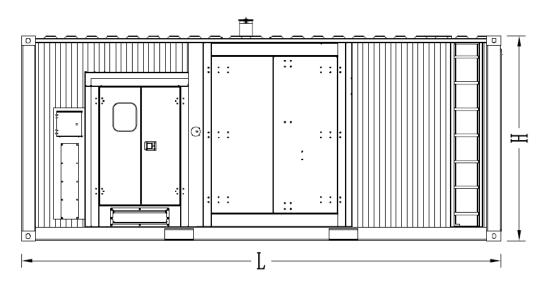
	Mode1	PCC500B	
Genset	Prime Power (kw)	364	
	Standby Power (kw)	400	
	Rate current(A)	657	
	Frequency(Hz)	50	
Engine	Engine Model	QSK19-G15	
	Gross Engine output-Prime (kw)	405	
	Gross Engine output-Standby (kw)	448	
	Bore * stroke (mm)	159*159	
	Cylinders and structure	6 In line	
	Displacement(Liter)	18. 9	
	Compression Ratio	14. 3:1	
	Intake way	Turbocharged and Charge Air Cooled	
	Max intake resistance (KPa)	6. 2	
	Intake Air Flow (m3/h)	2286	
	Max exhaust back pressure (KPa)	6.8	
	Exhaust gas flow (m3/h)	5566	
	Exhaust Gas Temperature (℃)	473	
	Cooling way	Water Radiator & Fan	
	Fan exhaust flow (m3/min)	960	
	Coolant capacity (L)	99	
	Maximum Top Tank Temperature(℃)	96	
	Minimum air opening to room (m2)	3. 3/2. 7	
	Standard Thermostat (Modulating) Range (°C)	83-95	
	Maximum Allowable Oil Temperature (°C)	121	
	Lubrication system oil capacity (L)	84	
	Rate load fuel consumption(L/H)	105	
	Standard Governor/Class	CELECT	
	Emission Certification	NRMM 3	
Alternator	Generator models that meet common power requirements	_	
		Marathon MP-400-4	
	Generator models that meet backup power	Engga EG315-400N3	
	requirements	Stamford HCI 544C	
		Faraday FD5M1-4	
	Rated Voltage(V)	400/230	
	Output Way	3 Phases, 4 wires	
	Rated power factor	0.8	
	Exciter May veltage regulation	Brushless, Self-exciter	
	Max voltage regulation	±1%	
	Phase Protection close	3	
	Protection class	IP21-23	
• "	Insulation class	H	
Controller	Brand	POWERTEC GC7110.2	

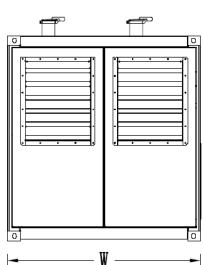
Dimension and Weight











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

Note: The above data are for reference only, the specific dimensions are subject to actual measurements!

Contact Us

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