

Model: PCC700B



Prime Power: 509KW/636KVA Standby Power: 560KW/700KVA Voltage: 400VAC

Powered by Cummins QSK19-G18 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 $\leq \pm 1\%$
- The transient frequency deviation $\leq +10\% \leq -7\%$
- ♦ The transient voltage deviation ≤+20% ≤-15%
- ♦ Frequency recovery time ≤3S
- Voltage recovery time $\leq 1S(Voltage \pm 3\%)$
- ♦ 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



柴油发动机性能描述

Model: Cummins QSK19-G18

- 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:

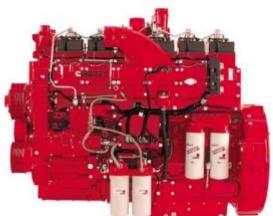
The improved combustion chamber shape allows the engine to achieve excellent emission levels without the need for post-processing, and has passed China's non-road stage three emission certification.

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.



ntelligent Control System

Standard detection

Standard protection

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

Genset Protection

Stop for over speed

Low oil pressure

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

Programmable I/O signal Emergency stop **Engine Protection**

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

Sensor fail

Alternator Protection

High Coolant temperature

- Over Voltage
- Over current
- Voltage signal lost

Control System Components

- Manual/auto/stop/start
- Setting button
- ♦ Fault status indicators

- Over Voltage
- Over frequency
- Voltage signal lost
- Screen menu selection button
- Emergency stop button
- Digital displayer

Communication Interface

International standard MODBUS communication protocol RS232/RS485 is suitable for remote control and monitor; It is easy integrated with SCADA;

(Option)

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

Running ∇ يتآس \bigcirc

POWER







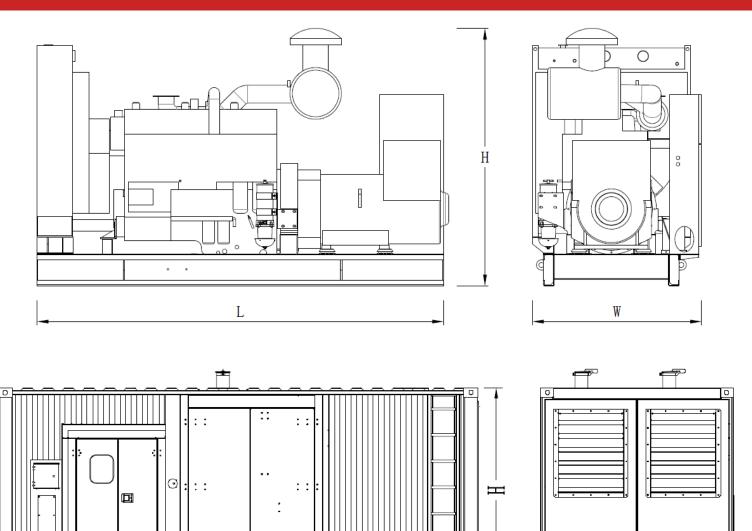
Data sheet of Genset

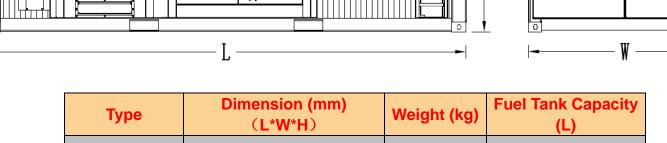


Genset	Mode1	PCC700B	
	Prime Power (kw)	509	
	Standby Power (kw)	560	
	Rate current(A)	918	
	Frequency(Hz)	50	
	Engine Model	QSK19-G18	
	Gross Engine output-Prime (kw)	564	
	Gross Engine output-Standby (kw)	624	
	Bore * stroke (mm)	159*159	
	Cylinders and structure	6 In line	
	Displacement(Liter)	18.9	
	Compression Ratio	14.3:1	
	Intake way	Turbocharged and Charge Air Cooled	
Engine	Max intake resistance (KPa)	6.2	
	Intake Air Flow (m3/h)	2743	
	Max exhaust back pressure (KPa)	6.8	
	Exhaust gas flow (m3/h)	6887	
	Exhaust Gas Temperature (°C)	490	
	Cooling way	Water Radiator & Fan	
	Fan exhaust flow (m3/min)	1055	
	Coolant capacity (L)	130	
	Maximum Top Tank Temperature(°C)	96	
	Minimum air opening to room (m2)	4.1/3.4	
	Standard Thermostat (Modulating) Range ($^{\circ}$ C)	83-95	
	Maximum Allowable Oil Temperature (°C)	121	
	Lubrication system oil capacity (L)	84	
	Rate load fuel consumption(L/H)	136	
	Standard Governor/Class	CELECT	
	Emission Certification	NRMM 3	
	Generator models that meet common power requirements	_	
		Marathon 573RSLA032	
	Generator models that meet backup power	Engga EG355-560N3	
Alformation	requirements	Stamford HCI 544F	
		Faraday FD5LP1-4	
	Rated Voltage(V)	400/230	
Alternator	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 GC7110.2	

Dimension and Weight







: :

	(L*W*H)		(L)
Open Type	3975*1893*2379	4700	_
Silent Type	6058*2438*2896	8900	1500

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

Contact Us

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