



Model: PCC825B

Prime Power: 600KW/750KVA Standby Power: 660KW/825KVA Voltage: 400VAC

Powered by Cummins QSK19-G20 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-G20
- ◆ 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!

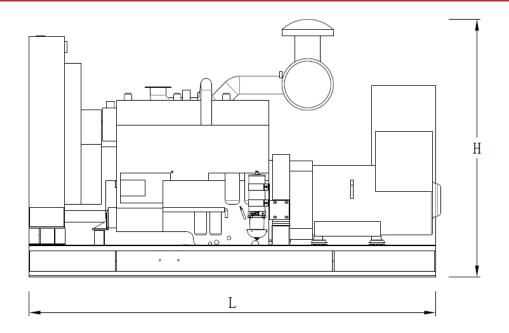
Data sheet of Genset

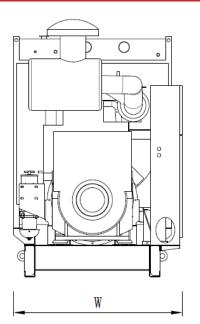


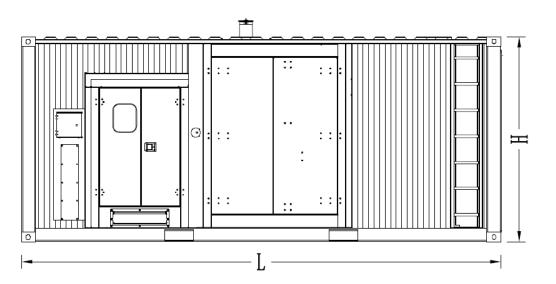
Mode1	PCC825B	
Prime Power (kw)	600	
Standby Power (kw)	660	
Rate current(A)	1083	
Frequency(Hz)	50	
Engine Model	QSK19-G20	
Gross Engine output-Prime (kw)	668	
Gross Engine output-Standby (kw)	740	
Bore * stroke (mm)	159*159	
	6 In line	
·	18.9	
	14.3:1	
	Turbocharged and Charge Air Cooled	
	6. 2	
	2772	
,	10. 1	
	7358	
	532	
• • • • •	Water Radiator & Fan	
	1055	
	130	
	96	
	5. 4/4. 5	
	83-95	
	121	
	84	
. , , , ,	155	
Standard Governor/Class	CELECT	
	NRMM 3	
Generator models that meet common power	Marathon 573RSLA034	
	Marathon 574RSLA035	
Generator models that meet backup power	Engga EG355-600N3	
requirements	Stamford S5L1D-H41	
	Faraday FD6AS1-4	
Rated Voltage(V)	400/230	
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	
Brand	POWERTEC GC7110.2	
	Prime Power (kw) Standby Power (kw) Rate current(A) Frequency(Hz) Engine Model Gross Engine output-Prime (kw) Gross Engine output-Standby (kw) Bore * stroke (mm) Cylinders and structure Displacement(Liter) Compression Ratio Intake way Max intake resistance (KPa) Intake Air Flow (m3/h) Max exhaust back pressure (KPa) Exhaust gas flow (m3/h) Exhaust Gas Temperature (°C) Cooling way Fan exhaust flow (m3/min) Coolant capacity (L) Maximum Top Tank Temperature (°C) Minimum air opening to room (m2) Standard Thermostat (Modulating) Range (°C) Maximum Allowable Oil Temperature (°C) Lubrication system oil capacity (L) Rate load fuel consumption(L/H) Standard Governor/Class Emission Certification Generator models that meet common power requirements Rated Voltage(V) Output Way Rated power factor Exciter Max voltage regulation Phase Protection class Insulation class	

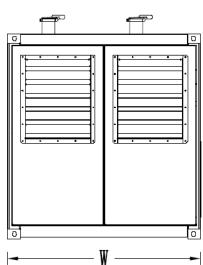
Dimension and Weight











Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	3975*1893*2379	4800	-
Silent Type	6058*2438*2896	9000	1500

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

Contact Us

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