

PCC1540B

Prime Power: 1120KW/1400KVA
Standby Power:1232KW/1540KVA
Voltage: 400VAC
Powered by Cummins QSK38-G30 Engine

Genset Performance

- 230/400VAC, 50Hz, 0.8PF, 3 Phases 4 wires
- Frequency drop $\leq 3\%$
- Voltage regulation $\leq 0.3\%$
- The steady state frequency $\leq 0.5\%$
- The steady state voltage deviation $\leq \pm 1\%$
- The transient frequency deviation $\leq +10\% \leq -15\%$
- The transient voltage deviation $\leq +20\% \leq -15\%$
- Frequency recovery time $\leq 3S$
- Voltage recovery time $\leq 1S$ (Voltage $\pm 3\%$)
- THF (Telephone Harmonic Factor) < 3
- TIF (Telephone Influence Factor) < 50
Comply to Standard NEMA MG1-22.43
- Built-in vibration isolator with high performance on shock absorption.

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

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
- 20GP or 40HQ container type canopy
- Trailer Type
- Environmentally design and construction of Genset room engineering for the Genset room

Diesel Engine

- Model: **QSK38-G30**
- 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..
- 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.
- The engine may be operated at :
1500 RPM up to 6900 ft. (2100 m) and 104 ° F (40 ° C) without power deration.
For sustained operation above these conditions, derate by 15.3% per 1,000 ft.(305 m), and 30% per 18 ° F (30% per 10 ° C).



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.



Standard

- 3 phases voltage: U_a, U_b, U_c
- Frequency F1
- Apparent power PR
- Power factor PF
- Coolant temperature WT
- Temperature °C display
- Oil pressure OP
- Engine speed
- 3 phases current: I_a, I_b, I_c
- Active power PA
- Power factor PF
- Temperature °C display
- KPa/Psi/Bar display
- Battery voltage V
- Running Hour
- Starting timer:(999999)



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
- Under frequency

Control System Components

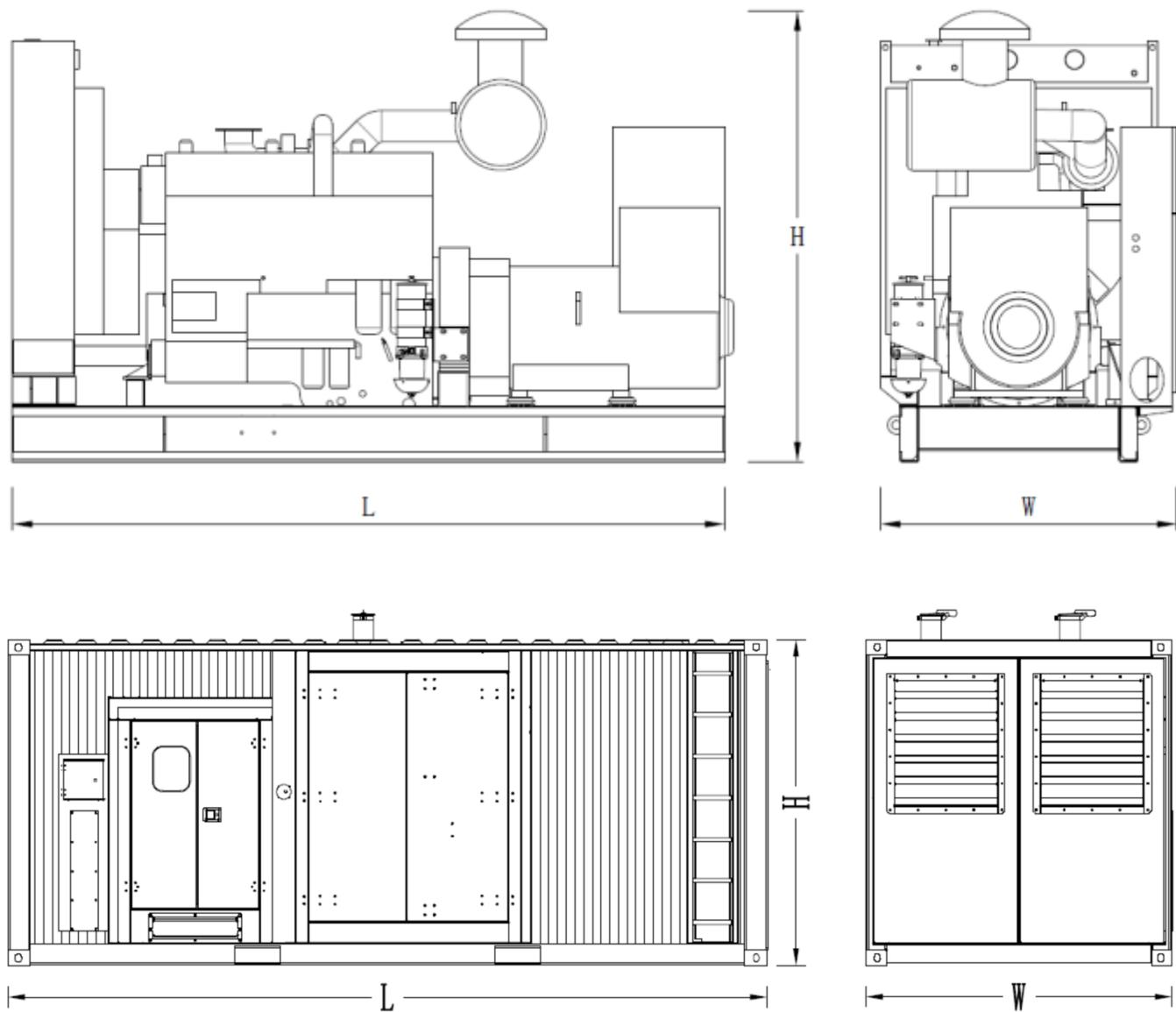
- Manual/auto/stop/start
- Setting button
- Fault status indicators
- Screen menu selection button
- Emergency stop button
- Digital display

Communication Interface

(Option)

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

| Genset | |
|-------------------------------------|------------------------------------|
| Model | PCC1540B |
| Prime Rating (kw) | 1120 |
| Standby Rating (kw) | 1232 |
| Rate voltage(V) | 400 |
| Rate current(A) | 2021 |
| Frequency(Hz) | 50 |
| Engine | |
| Engine Model | QSK38-G30 |
| Gross Engine output-Prime (kw) | 1239 |
| Gross Engine output-Standby (kw) | 1371 |
| Bore * stroke (mm) | 159*159 |
| Cylinders and structure | 12 Cylinder ; Vee |
| Displacement(Liter) | 37.7 |
| Compression Ratio | 14.2:1 |
| Intake way | Turbocharged and Charge Air Cooled |
| Max intake resistance (KPa) | 6.2 |
| Air intake (m3/h) | 5828 |
| Max exhaust back pressure (KPa) | 10.1 |
| Exhaust gas flow (m3/h) | 13694 |
| Exhaust temp (°C) | 473 |
| Cooling way | Water Radiator & Fan |
| Fan exhaust flow (m3/min) | 1140 |
| Coolant capacity (L) | 310 |
| Highest water temperature(°C) | 110 |
| Minimum air opening to room (m2) | 7.1/5.9 |
| Thermostat range (°C) | 85-95 |
| Max oil temperature (°C) | 130 |
| Lubrication system oil capacity (L) | 121.5 |
| Rate load fuel consumption(L/H) | 290 |
| Standard Governor/Class | Electronic Fuel Injection |
| Emission | China CS III |
| Alternator | |
| 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 | H |
| Controller | |
| Brand | POWERTEC |



| Type | Dimension (mm) (L*W*H) | Weight (kg) | Fuel Tank Capacity (L) |
|--------------------|---------------------------|----------------|---------------------------|
| Open Type | 5100*2435*2259 | 9000 | / |
| Silent Type | / | / | / |

Contact Us

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