

## PCC1375B

**Prime Power: 1000KW/1250KVA**

**Standby Power: 1100KW/1375KVA**

**Voltage: 400V**

**Powered by Cummins KTA38-G9A Engine**

### Genset Performance

- 230/400V, 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  $\leq 1S(\text{Voltage} \pm 3\%)$
- 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

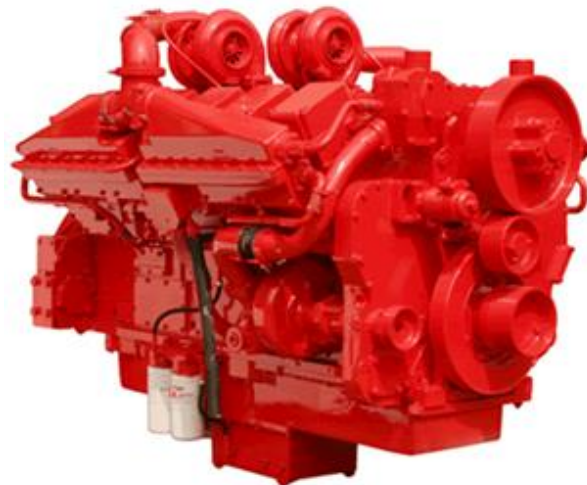
- Cummins Engine
- Brushless synchronous alternator
- POWERTEC intelligent controller
- 40°C standard ambient temperature  
(50°C Optional)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- Manual book and files

### Optional Items

- Starting batteries
- Fuel tank
- Circuit Breaker
- 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
- Trailer
- 20GP or 40HQ container type canopy
- Design and construction of environmental protection engineering for the Genset room

## Diesel Engine

- Model: **KTA38-G9A**
- Construction: replaceable wet type cylinder block has excellent radiation. Mature standard spare parts commonly apply to other engine in this series. Cylinder block and head will have no fault with the designment of internal oil passage and compact structure
- Cooling system: Adopt gear centrifugal water pump to cool down water temperature. With large flow channel designmeng ,it has good cooling performance;
- Fuel system: Cummins patented technology (PT) fuel system optimizes combustion and reduces emission;
- The engine may be operated at :  
1800 RPM up to 5000 ft. (1500 m) and 104° F (40 °C) without power deration.  
1500 RPM up to 5000 ft. (1500 m) and 104 ° F (40 °C) without power deration.  
For sustained operation above these conditions, derate by 4% per 1,000 ft.(300 m), and 1% per 10 ° F (2% per 11 °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 satisfy tough environment.
- Rotor dynamic balancing complys for BS5625, class 2.
- 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  $^{\circ}C$  display
- Oil pressure  $OP$
- Engine speed
- 3 phases current:  $I_a, I_b, I_c$
- Active power  $PA$
- Power factor  $PF$
- Temperature  $^{\circ}C$  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 displayer



## 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               | PCC1375B |
| Prime Rating (kw)   | 1000     |
| Standby Rating (kw) | 1100     |
| Rate voltage(V)     | 400      |
| Rate current(A)     | 1804     |
| Power factor        | 0.8      |
| Frequency(Hz)       | 50       |

## Engine

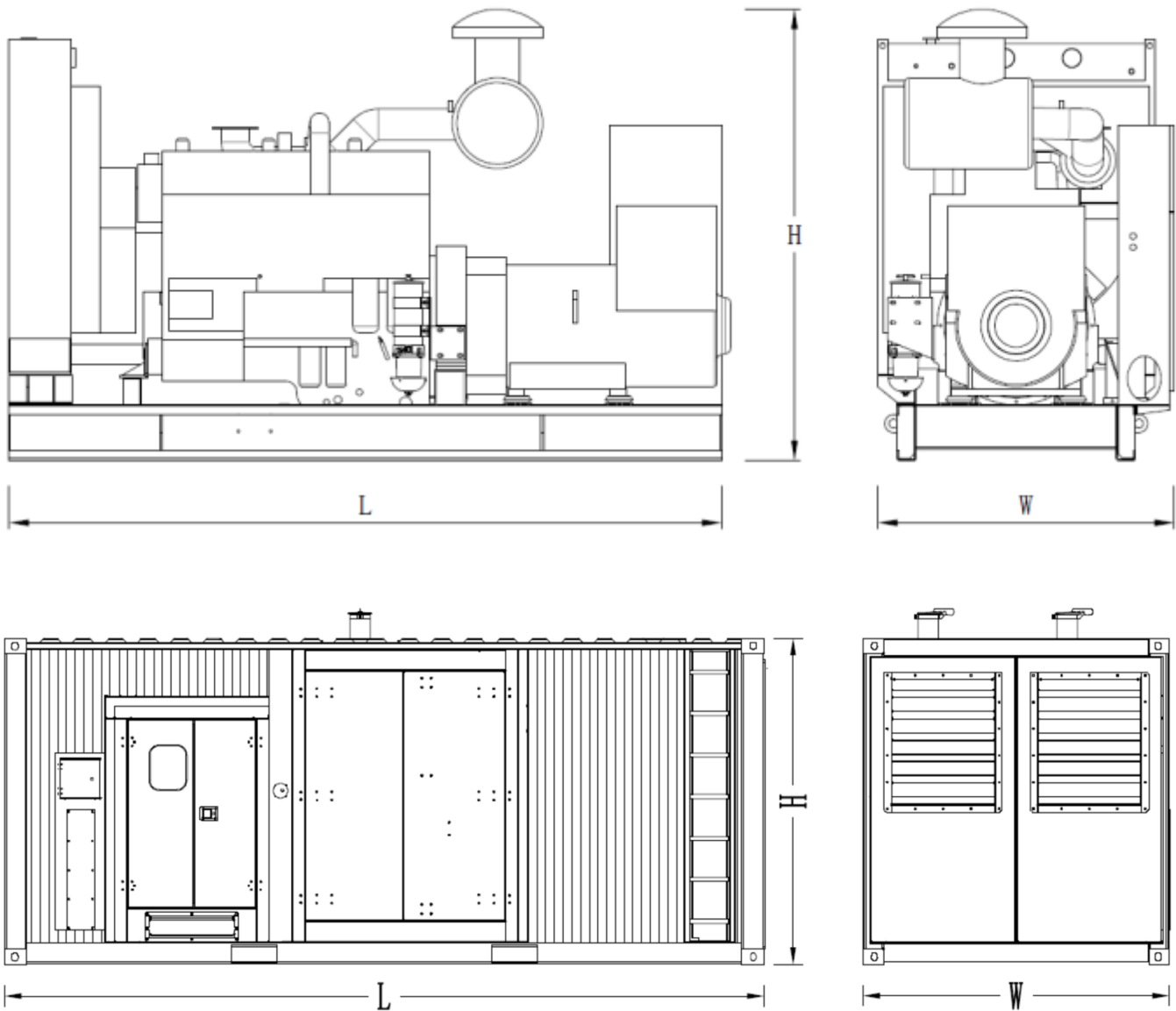
|                                     |                                    |
|-------------------------------------|------------------------------------|
| Engine Model                        | KTA38-G9A                          |
| Gross Engine output-Prime (kw)      | 1100                               |
| Gross Engine output-Standby (kw)    | 1210                               |
| Bore * stroke (mm)                  | 159*159                            |
| Cylinders and structure             | 12 Cylinder ; Vee                  |
| Displacement(Liter)                 | 38                                 |
| Compression Ratio                   | 14.7:1                             |
| Intake way                          | Turbocharged and Charge Air Cooled |
| Max intake resistance (KPa)         | 6.23                               |
| Air intake (m3/h)                   | 5159                               |
| Max exhaust back pressure (KPa)     | 10                                 |
| Exhaust gas flow (m3/h)             | 12920                              |
| Exhaust temp (°C)                   | 430                                |
| Cooling way                         | Water Radiator & Fan               |
| Fan exhaust flow (m3/min)           | 1140                               |
| Coolant capacity (L)                | 303                                |
| Highest water temperature(°C)       | 96                                 |
| Minimum air opening to room (m2)    | 6.0/5.5                            |
| Thermostat range (°C)               | 82-93                              |
| Max oil temperature (°C)            | 121                                |
| Lubrication system oil capacity (L) | 173                                |
| Rate load fuel consumption(L/H)     | 260                                |
| Standard Governor/Class             | Electronic                         |
| Emission Certification              | China Tier 3                       |

## Alternator

|                        |                         |
|------------------------|-------------------------|
| Rated Voltage(V)       | 230/400                 |
| 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)<br>(L*W*H) | Weight<br>(kg) | Fuel Tank Capacity<br>(L) |
|-------------|---------------------------|----------------|---------------------------|
| Open Type   | 5000*2098*2339            | 8000           | —                         |
| Silent Type | 6058*2438*2591            | 12200          | 1500                      |

Contact Us

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