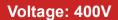


PCC350B

Prime Power: 250KW/313KVA

Standby Power: 280KW/350KVA



Powered by Cummins M15-G3 Engine

Genset Performance

- 230/400V, 50Hz, 0.8PF, 3 Phases 4 wires
- Frequency drop $\leq 3\%$
- 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 -15%
- The transient voltage deviation \leq +20% \leq -15%

≤3S

- Frequency recovery time
- 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
- Trailer
- Design and construction of environmental protection engineering for the Genset room

Standard Configuration

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

Diesel Engine

Model: M15-G3

- The cylinder block and cylinder head adopt high-strength integrated design, which reduces the failure rate, is durable and has an excellent reputation; the integral all-steel piston design, the cylinder block and crankshaft made of high-strength materials, and the rigorous component testing and verification make the engine stronger; block integration, compact structure, low failure rate, low vibration, and low noise.
- Fuel system: The new Cummins high-pressure common rail fuel system is used, with ultra-high fuel injection pressure, which can accurately control the injection time and amount, and the thermal efficiency can reach 48%. The three-stage fuel filter ensures a balanced particle



dispersion level, protects the main components of the fuel system, and maximizes the engine life.

- Easy maintenance: INSITE?, an engine monitoring and diagnostic software based on Windows operating system, provides users with a friendly interface and great freedom, and supports rapid diagnosis of engine faults. Overall modular design, block integration, compact structure, detachable parts, high reusability. More than 80% of common parts reduce user operation and maintenance costs. The industry's top NanoNet nano fuel filter and oil filter; wide adaptability of engine oil (CH4) and fuel, meeting the 500-hour maintenance cycle.
- The engine may be operated at: 1500 RPM up to 3000 ft. (1000 m) and 104 ° F (40 °C) without power deration. For sustained operation above these conditions, derate by 8.6% per 1,000 ft.(305 m), and N/A% per 18 °F(N/A%% 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.
- Sealed with advanced lubricating grease to prolong life of bearing.



Intelligent Control System



Standard

- 3 phases voltage: Ua, Ub, Uc
- Frequency F1
- Apparent power PR
- Power factor PF
- Coolant temperature WT
- Temperature °C display
- Oil pressure OP
- Engine speed

- 3 phases current: La, Lb, Lc
- 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

Engine Protection

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

Alternator Protection

- **Over Voltage**
- Over current
- Voltage signal lost

Control System Components

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

Emergency stop

- Alarm for low/high battery voltage
- Low battery voltage
- Fail to start/Cranking fail
- **Over Voltage**
- Over frequency
- Under frequency
- 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;.



POWERTEC

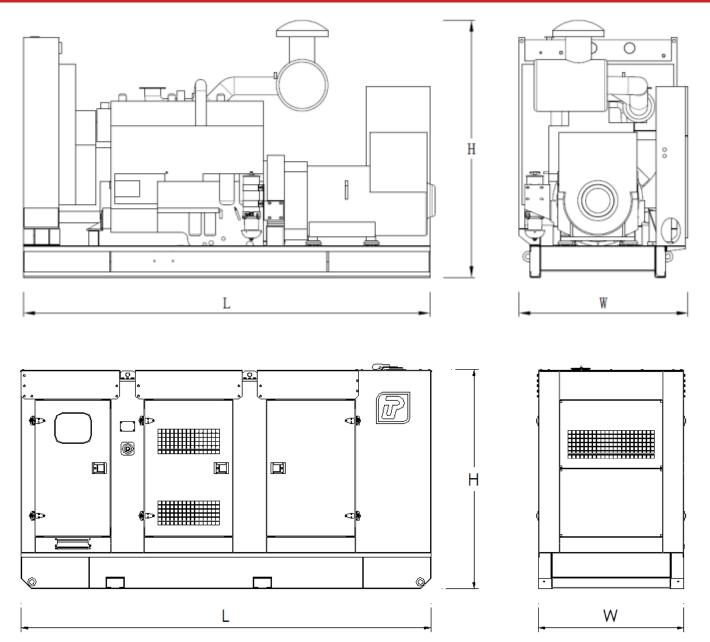
Data sheet of Genset



Genset				
Model PCC350B				
Prime Rating (kw)	250			
Standby Rating (kw)	280			
Rate voltage(V)	400			
Rate current(A)	451			
Power factor	0.8			
Frequency(Hz)	50			
Engine				
Engine Model	M15-G3			
Gross Engine output-Prime (kw)	295			
Gross Engine output-Standby (kw)	324			
Bore * stroke (mm)	135*169			
Cylinders and structure	6 In line			
Displacement(Liter)	14.5			
Compression Ratio	23:1			
Intake way	Turbocharged and Charge Air Cooled			
Max intake resistance (KPa) 6.2				
Air intake (m3/h)	1504			
Max exhaust back pressure (KPa)	10			
Exhaust gas flow (m3/h)	2866			
Exhaust temp (°C)	334			
Cooling way	Water Radiator & Fan			
Fan exhaust flow (m3/min)	546			
Coolant capacity (L)	50.5			
Highest water temperature($^{\circ}$ C)	104			
Minimum air opening to room (m2)	1.7/1.4			
Thermostat range (℃)	80-97.2			
Max oil temperature ($^{\circ}$ C)	135			
Lubrication system oil capacity (L)	52			
Rate load fuel consumption(L/H)	63			
Standard Governor/Class	Common Rail			
Alterr	nator			
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	Н			
Controller				
Brand	POWERTEC			

Dimension and Weight





Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	3125*1373*1600	2369	-
Silent Type	3950*1400*2115	3769	750

Contact Us

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