



PDC215A

Prime Power: 160KW/200KVA Standby Power: 172KW/215KVA Voltage:400V

Powered by Cummins 6CTAA8.3-G2 Engine

Genset Performance

- 230/400V, 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 ≤+10% ≤-15%
- The transient voltage deviation ≤+20% ≤-15%
- Frequency recovery time ≤3S
- Voltage recovery time ≤1S(Voltage ±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)
- Circuit breaker (3P)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- Manual book and files

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



Equipment Instruction



Diesel Engine

- Model:6CTAA8.3-G2
- Structure: The cylinder liner adopts a platform mesh honing design and a corrosion-resistant high-nickel cast iron piston, which greatly reduces engine oil consumption.loss, enhanced durability, longer service life
- Integrated design: the cylinder block, cylinder head and other parts are "multi-purpose in one piece", reducing the number of connecting parts; 40% fewer parts than other similar engines, greatly reducing the failure rate:
- Fuel system: Bosch in-line fuel pump, more complete combustion under high injection pressure, less energy loss, More powerful power and strong fuel adaptability;
- Filtration system: Dry core air filter with air intake resistance indicator
 Spin-on Paper Based Full Flow and Bypass Oil Filters Spin-on anti-corrosion water filter;
- Leading design and manufacturing: advanced design, exquisite manufacturing technology, reliable and durable.
- Holset supercharger: with integrated wastegate valve, strong low-speed response and power.



- 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;.

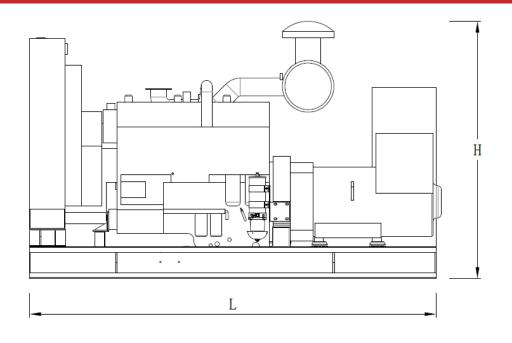
Data sheet of Genset

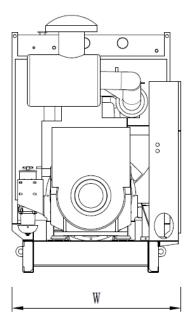


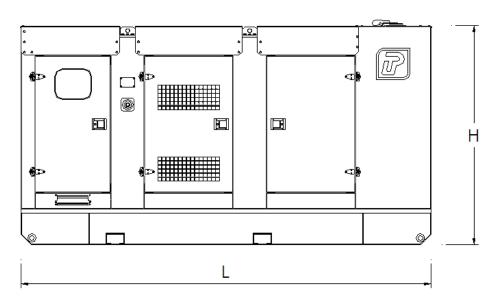
Model	PDC215A			
Prime Rating (kw)	160			
Standby Rating (kw)	172			
Rate voltage(V)	400			
Rate current(A)	289			
Power factor	0.8			
Frequency(Hz)	50			
Engine				
Engine Model	6CTAA8.3-G2			
Gross Engine output-Prime (kw)	183			
Gross Engine output-Standby (kw)	203			
Bore * stroke (mm)	114*135			
Cylinders and structure	6 In line			
Displacement(Liter)	8.3			
Compression Ratio	18.0:1			
Intake way	Turbocharged and Charge Air Cooled			
Max intake resistance (KPa)	6.35			
Air intake (m3/h)	659			
Max exhaust back pressure (KPa)	10			
Exhaust gas flow (m3/h)	1728			
Exhaust temp (°C)	580			
Cooling way	Water Radiator & Fan			
Fan exhaust flow (m3/min)	380			
Coolant capacity (L)	34			
Highest water temperature(°C)	110			
Minimum air opening to room (m2)	1.5/1.3			
Thermostat range (°C)	83-95			
Max oil temperature (°C)	121			
Lubrication system oil capacity (L)	23.8			
Rate load fuel consumption(L/H)	45			
Standard Governor/Class	Electronic			
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	Н			
Controller				
Brand	POWERTEC			

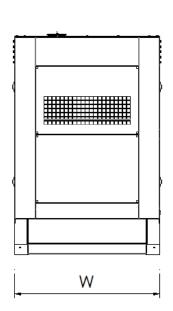
Dimension and Weight











Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	2550*1112*1443	1800	315
Silent Type	3500*1245*2052	3060	550

Contact Us

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