

PDC275A

Prime Power: 200KW/250KVA



Powered by Cummins QSL8.9-G4 Engine

Genset Performance

- 230/400V, 50Hz, 0.8PF, 3 Phases 4 wires
- Frequency drop
- 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%

≤3S

 \leq 1S(Voltage \pm 3%)

- The transient voltage deviation ≤+20% ≤-15%
- Frequency recovery time
- Voltage recovery time
- 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.

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:QSB8.9-G4
- Leading in-cylinder combustion technology gives the engine basic platformexcellent reliability and durability, good inheritance, long-lasting advantages, and easy upgrades;
- Integrated oil and water pipelines replace traditional hoses, eliminating the risk of leakage;
- Enhanced cooling and lubrication functions effectively extend the service life of the engine;
- Cummins high-pressure common rail fuel system (HPCR) realizes multi-point injection, rapid throttle response at different speeds, more efficient power output, better fuel economy and lower noise.
- Two-stage dual fuel filters ensure a balanced level of particle dispersion, maximize the life of the fuel filter, and protect the main components of the fuel system.
- Emission standards: Meet the National Phase III emission standards;
- The engine may be operated at : 1500 RPM up to 2000 m and 104 ° F (40 °C) without power deration. For sustained operation above these conditions, derate by 4% per 300 m, and 3% 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.



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

Communication Interface

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

Screen menu selection button

Emergency stop button

Digital displayer



(Option)

Emergency stop

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

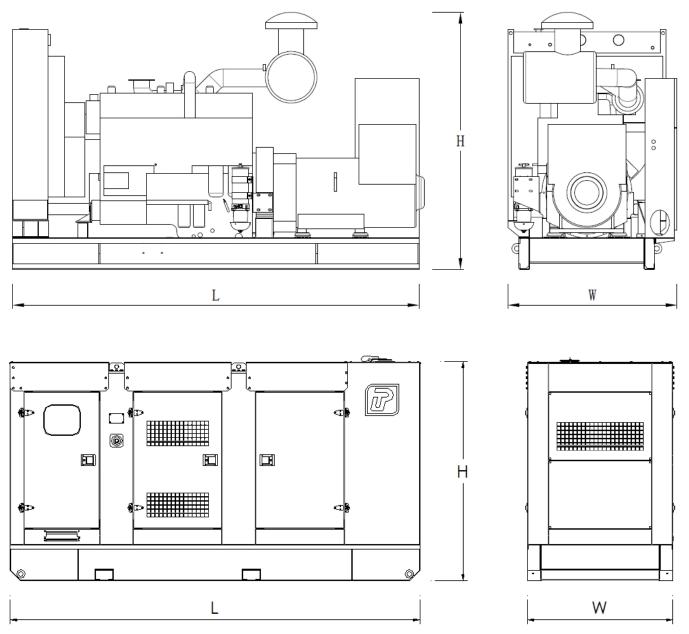
Data sheet of Genset



Genset				
Model PDC275A				
Prime Rating (kw)	200			
Standby Rating (kw)	220			
Rate voltage(V)	400			
Rate current(A)	361			
Power factor	0.8			
Frequency(Hz)	50			
Engine				
Engine Model	QSL8.9-G4			
Gross Engine output-Prime (kw)	235			
Gross Engine output-Standby (kw)	258			
Bore * stroke (mm)	114*145			
Cylinders and structure	6 In line			
Displacement(Liter)	8.9			
Compression Ratio	17.73:1			
Intake way	Turbocharged and Charge Air Cooled			
Max intake resistance (KPa)	6.2			
Air intake (m3/h)	942			
Max exhaust back pressure (KPa)	10			
Exhaust gas flow (m3/h)	2102			
Exhaust gub now (morr) Exhaust temp (°C)	513			
Cooling way	Water Radiator & Fan			
Fan exhaust flow (m3/min)	460			
Coolant capacity (L)	33.5			
Highest water temperature(°C)	104			
Minimum air opening to room (m2)	2.4/2.0			
Thermostat range (°C) 82-95				
Max oil temperature (°C) 124				
Lubrication system oil capacity (L) 28.1				
Rate load fuel consumption(L/H)	60			
Standard Governor/Class	Electronically Controlled High Voltage Common Rail			
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			
	roller			
Brand	POWERTEC			

Dimension and Weight





Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	2731*1067*1528	1952	430
Silent Type	3950*1400*2115	3352	750

Contact Us

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