



PPE400B

Prime Power:280KW/350KVA Standby Power:320KW/400KVA Voltage: 400VAC

Powered by Perkins 2206C-E13TAG2 Engine

Genset Performance

- 230/400VAC, 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 deviatio \leq +10% \leq -15%

≤3S

- The transient voltage deviation ≤+20% ≤-15%
- 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
- 20GP or 40HQ container type canopy
- Design and construction of environmental protection
- Engineering for the Genset room

Standard Configuration

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

Equipment Instruction



Diesel Engine

- Model: Perkins 2206C-E13TAG2
- Construction:Forged steel crankshaft, cast iron steel body and Replaceable wet cylinder liner, two/four valves per cylinder ;
- Cooling system: Thermostatically-controlled system with belt driven coolant pump and pusher fan;mounted radiator,piping and guards;
- Fuel system: Mechanically regulated embedded fuel injection pump, non-direct injection ;

Environment: The engine can work under the following conditions without modulating power:

1800r/min engine--altitude less than 1000 m, ambient temperature less than 40 $\,^\circ \! C$ 1500r/min engine--altitude less than1000 m, ambient temperature less than 40 $\,^\circ \! C$

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.





Notes: Above data of alternator comes from Stamford. Specification may alternated without advance notice.

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;.

Notes: Above data of controller comes from POWERTEC GC6110. Customized solutions is available as required

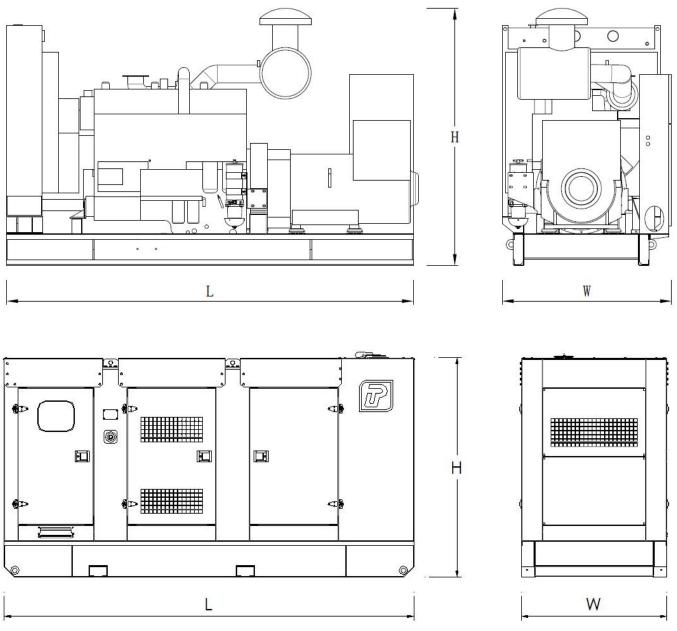
Data sheet of Genset



Genset				
Model	PPE400B			
Prime Rating (kw)	280			
Standby Rating (kw)	320			
Rate voltage(V)	400			
Rate current(A)	505			
Power factor	0.8			
Frequency(Hz)	50			
Engine				
Engine Model	2206C-E13TAG2			
Gross Engine output-Prime (kw)	305			
Gross Engine output-Standby (kw)	dby (kw) 349			
Bore * stroke (mm)	130*157			
Cylinders and structure	6 In line			
Displacement(Liter)	12.5			
Compression Ratio	16.3:1			
Intake way	Supercharge / Air to air intercooled			
Max intake resistance (KPa)	6.4			
Air intake (m3/h)	1512			
Max exhaust back pressure (KPa)	10			
Exhaust gas flow (m3/h)	4038			
Exhaust temp (℃)	630			
Cooling way	Water Radiator & Fan			
Fan exhaust flow (m3/min)	654			
Coolant capacity (L)	51.4			
Highest water temperature(℃)	104			
Minimum air opening to room (m2)	2.5/2.0			
Thermostat range (℃)	87-98			
Max oil temperature (℃)	113			
Lubrication system oil capacity (L)	40			
Rate load fuel consumption(L/H)	75			
Standard Governor/Class	Electronic Injection			
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	Н			
Controller				
Brand	POWERTEC or DEEPSEA			

Dimension and Weight





Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	3400*1630*2005	3291	-
Silent Type	4700*1700*2450	5241	1000

Contact Us

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