

## PPE340B

Standby Power:270KW/338KVA Voltage: 400VAC Prime Power: 245KW/306KVA

Powered by Perkins1706A-E93TAG1 Engine

#### **Genset Performance**

- 230/400VAC, 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 deviatio
  - ≤+10% ≤-15%
- The transient voltage deviation
- **≤+20% ≤-15%**
- Frequency recovery time
- ≤3S
- Voltage recovery time
- $\leq$ 1S(Voltage  $\pm$ 3%)
- THF (Telephone Harmonic Factor) <3
- <50 TIF (Telephone Influence Factor)
  - Comply to Standard NEMA MG1-22.43
- Built-in vibration isolator with high performance on shock absorption.

## **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

## **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

# **Equipment Instruction**



## **Diesel Engine**

- Model: Perkins 1706A-E93TAG1
- 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 than 1000 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;.

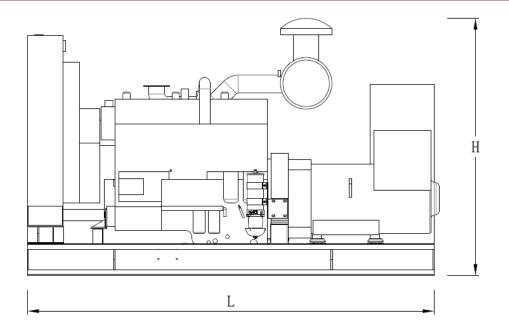
# **Data sheet of Genset**

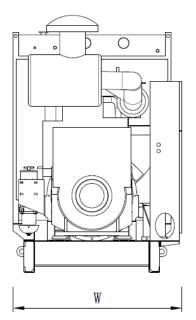


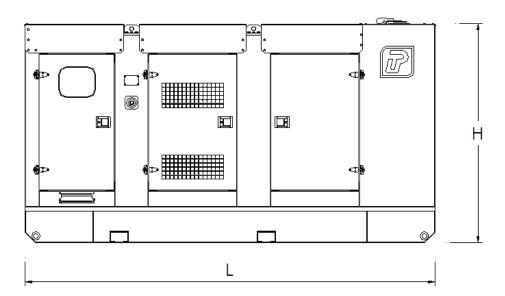
Genset				
Model PPE340B				
Prime Rating (kw)	245			
Standby Rating (kw)	270			
Rate voltage(V)	400			
Rate current(A)	442			
Power factor	0.8			
Frequency(Hz)	50			
Engine				
Engine Model	1706A-E93TAG1			
Gross Engine output-Prime (kw)	267.3			
Gross Engine output-Standby (kw)	295			
Bore * stroke (mm)	115*149			
Cylinders and structure	6 In line			
Displacement(Liter)	9.29			
Compression Ratio	16.5:1			
Intake way	Supercharge / Air to air intercooled			
Max intake resistance (KPa)	6.2			
Air intake (m3/h)	1020			
Max exhaust back pressure (KPa)	10			
Exhaust gas flow (m3/h)	2706			
	561			
Exhaust temp (°C) Cooling way	Water Radiator & Fan			
Fan exhaust flow (m3/min)	370			
Coolant capacity (L)				
	112			
Minimum air opening to room (m2)  2.0/1.8				
	83-92			
Thermostat range (°C)	125			
Lubrication system oil capacity (L)	30			
Rate load fuel consumption(L/H)	65			
Standard Governor/Class	Electronic			
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 GC6110			

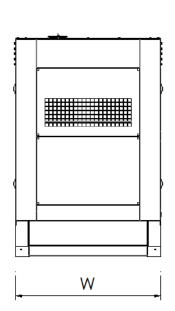
# **Dimension and Weight**











Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	3000*1330*1800	2750	-
Silent Type	3950*1400*2115	4150	600

# **Contact Us**

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