



PPE340B

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

Powered by Perkins 1706A-E93TAG1 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

Standard equipped with ambient temperature 40°C

Connecting radiator

Built-in vibration isolator with high performance on shock absorption.

Product standards: (1) GB/T 2820-2022 / IS08528:2018

(2) GB/T 4712-2008 (3) YD/T 502-2020 (4) YD/T 1051-2018

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
- Silent type/Trailer
- Standardized container
- 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)
- Circuit breaker (3P)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- Manual book and files

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Equipment Instruction

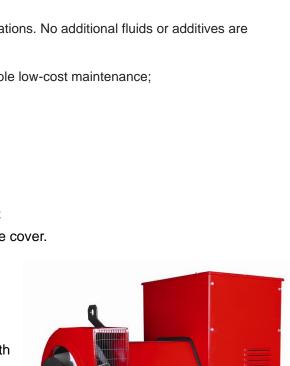


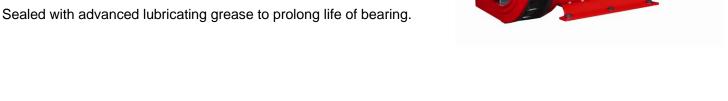
Diesel Engine

- Model: 1706A-E93TAG1
- Perkins is pleased to announce the natural expansion of the 1700 Series to include a new addition to the ElectropaK range;
- The whole engine has been built around the demands of our customers and as such offers a great package with a simple integration design;
- Perkins have developed a reputation for designing and building reliable and durable engines suitable for the most demanding applications;
- World-class manufacturing capability and processes coupled with proven core engine designs assure reliability, quiet operation, and many hours of productive life;
- Series turbocharging with smart wastegate available on all ratings;
- A high power density product that combine dependable power and high efficiency at the same time. Driving lower cost of ownership along with better performance To find more, visit: www.perkins.com/powerdensity;
- Tropical radiator is supplied as standard;
- Fuel consumption optimized prime power and continuous running applications. No additional fluids or additives are required which lowers operating costs;
- Hydraulic tappets, multi-vee belts and 500-hour oil change intervals enable low-cost maintenance;



- 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
- The stator winding is impregnated and the surface is covered with moisture-proof epoxy insulating paint.
- Rotor and exciter made with high temperature insulating resin, to satify tough environment.
- Rotor dynamic balancing complys for BS5625, class 2.5





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Intelligent Control System



Standard Meters

- 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 [®] display
- KPa/Psi/Bar display
- Battery voltage V
- Running Hour
- Starting timer: (999999)



Standard Protection Function

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;.

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Data sheet of Genset

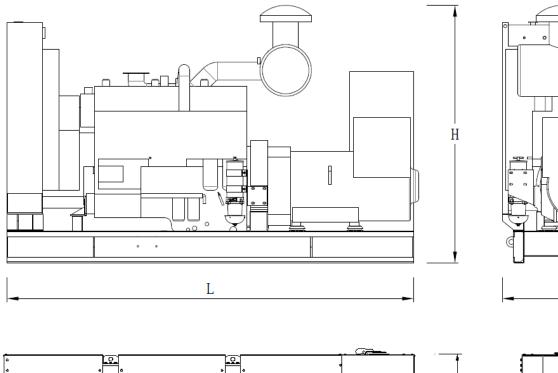


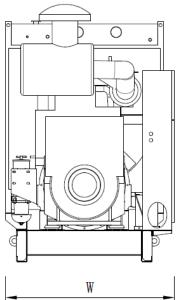
Genset				
Model	PPE340B			
Prime Rating (kw)	245			
Standby Rating (kw)	270			
Rate current(A)	442			
Power factor	0.8			
Frequency(Hz)	50			
Engine				
Engine Model	1706A-E93TAG1			
Gross Engine output-Prime (kw)	267.3			
Gross Engine output-Standby (kw)	295.0			
Bore * stroke (mm)	115*149			
Cylinders and structure	6 In line			
Displacement(Liter)	9.29			
Compression Ratio	16.5:1			
Intake way	Turbocharged aftercooled			
Max intake resistance (KPa)	6.2			
Air intake (m3/h)	1020			
Max exhaust back pressure (KPa)	10			
Exhaust gas flow (m3/h)	2706			
Exhaust temp (°C)	561			
Cooling way	Water Radiator & Fan			
Fan exhaust flow (m3/min)	370			
Coolant capacity (L)	33			
Highest water temperature(°C)	112			
Minimum air opening to room (m2)	2.0/1.8			
Thermostat range (°C)	ermostat range (°C) 83-92			
Max oil temperature ($^{\circ}\!\mathbb{C}$)	ature (°C) 125			
Lubrication system oil capacity (L) 30				
Rate load fuel consumption(L/H)	65			
Standard Governor/Class	Governor/Class Electronic speed regulation			
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			

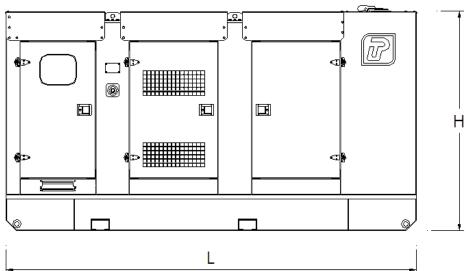
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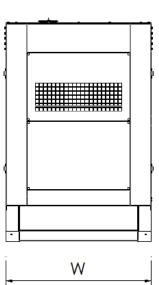
Dimension and Weight











Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	3000*1330*1800	2750	-
Silent Type	3950*1400*2115	4150	750

Contact Us

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