

PPE375B

Prime Power: 275KW/344KVA

Standby Power: 300KW/375KVA

Voltage: 400V

Powered by Perkins 1706A-E93TAG2 Engine

Genset Performance

- 230/400V, 50Hz, 0.8PF, 3 Phases 4 wires
- Frequency drop $\leq 3\%$
- Voltage regulation $\leq 0.3\%$
- The steady state frequency $\leq 0.5\%$
- The steady state voltage deviation $\leq \pm 1\%$
- The transient frequency deviation $\leq +10\%$ $\leq -7\%$
- The transient voltage deviation $\leq +20\%$ $\leq -15\%$
- Frequency recovery time $\leq 3S$
- Voltage recovery time $\leq 1S(\text{Voltage} \pm 3\%)$
- 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 / ISO8528:2018
(2) GB/T 4712-2008 (3) YD/T 502-2020 (4) YD/T 1051-2018

Optional Items

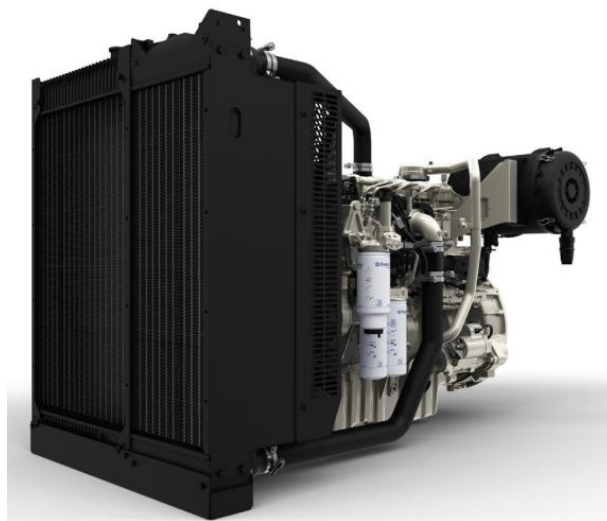
- Starting batteries
- Fuel tank
- Oil-water separator
- Sensor for low coolant level, low fuel/oil level
- Automatically monitoring & controlling system of city power
- Coolant heater
- Oil heater
- Heat exchanger--Water cooled tower system
- Silent type/Trailer
- Standardized container
- Design and 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

Diesel Engine

- Model: 1706A-E93TAG2
- 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;



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
- 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 satisfy tough environment.
- Rotor dynamic balancing complies for BS5625, class 2.5
- Sealed with advanced lubricating grease to prolong life of bearing.



Standard Meters

- 3 phases voltage: U_a , U_b , U_c
- Frequency $F1$
- Apparent power PR
- Power factor PF
- Coolant temperature WT
- Temperature $^{\circ}C$ display
- Oil pressure OP
- Engine speed
- 3 phases current: I_a , I_b , I_c
- Active power PA
- Power factor PF
- Temperature $^{\circ}C$ display
- KPa/Psi/Bar display
- Battery voltage V
- Running Hour
- Starting timer:(999999)



Standard Protection Function

Genset Protection

- Programmable I/O signal
- Emergency stop

Engine Protection

- Stop for over speed
- Low oil pressure
- High Coolant temperature
- Sensor fail
- Alarm for low/high battery voltage
- Low battery voltage
- Fail to start/Cranking fail

Alternator Protection

- Over Voltage
- Over current
- Voltage signal lost
- Over Voltage
- Over frequency
- Under frequency

Control System Components

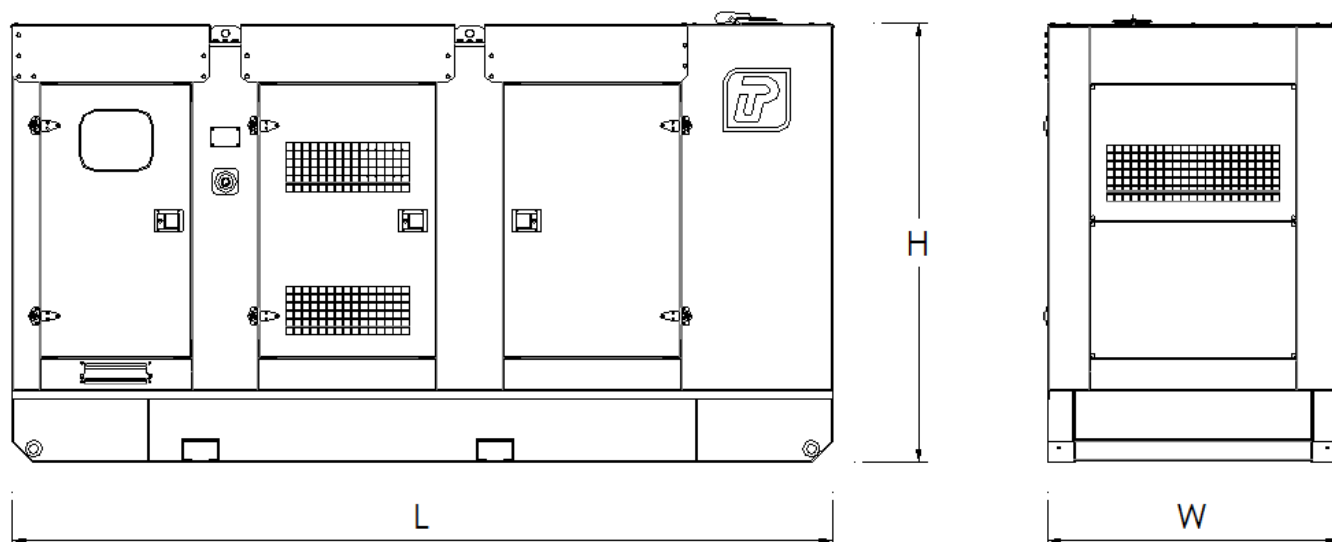
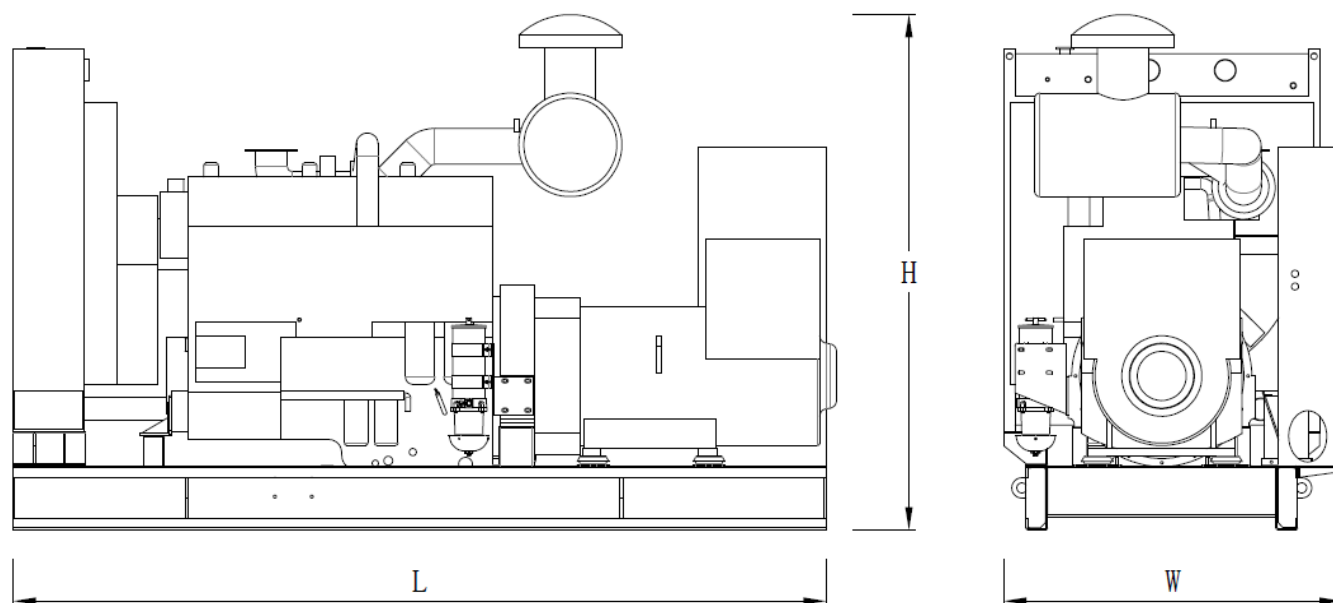
- Manual/auto/stop/start
- Setting button
- Fault status indicators
- Screen menu selection button
- Emergency stop button
- Digital displayer



Communication Interface (Option)

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

Genset	
Model	PPE375B
Prime Rating (kw)	275
Standby Rating (kw)	300
Rate current(A)	496
Power factor	0.8
Frequency(Hz)	50
Engine	
Engine Model	1706A-E93TAG2
Gross Engine output-Prime (kw)	302.4
Gross Engine output-Standby (kw)	334.0
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)	1150
Max exhaust back pressure (KPa)	10
Exhaust gas flow (m3/h)	2860
Exhaust temp (°C)	550
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)	83-92
Max oil temperature (°C)	125
Lubrication system oil capacity (L)	30
Rate load fuel consumption(L/H)	80
Standard 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	H
Controller	
Brand	POWERTEC



Type	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	3100*1330*1800	2900	-
Silent Type	3950*1400*2115	4300	750

Contact Us

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