

PPE1250B

Prime Power: 900KW/1125KVA Standby Power:1000KW/1250KVA Voltage: 400V

Powered by Perkins 4008-30TAG3 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
- Circuit breaker
- 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)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- Manual book and files

Diesel Engine

- Model: 4008-30TAG3
- The Perkins® 4000 Series is a family of 6, 8, 12 and 16 cylinder diesel engines, designed to address today's uncompromising demands within the power generation industry with particular aim at the standby market sector;
- Developed from a proven engine range that offers superior performance and reliability;
- The 4008-30TAG3 is a turbocharged and air-to-air charge cooled, 8 cylinder diesel engine offered in an engine only configuration. Its premium features and design provide economic and durable operation as well as an exceptional power to weight ratio, excellent load acceptance and improved gaseous emissions, plus the overall performance and reliability characteristics essential to the power generation market;
- Individual 4 valve cylinder heads giving optimised gas flows;
- Unit fuel injectors ensure ultra fine fuel atomisation and hence controlled rapid combustion;
- Capable emissions of 1/2 TA Luft (1986);
- Oil change service intervals are set at 500 hours as standard;
- Designed to provide low cost of ownership, simple maintenance and reduced downtime;



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

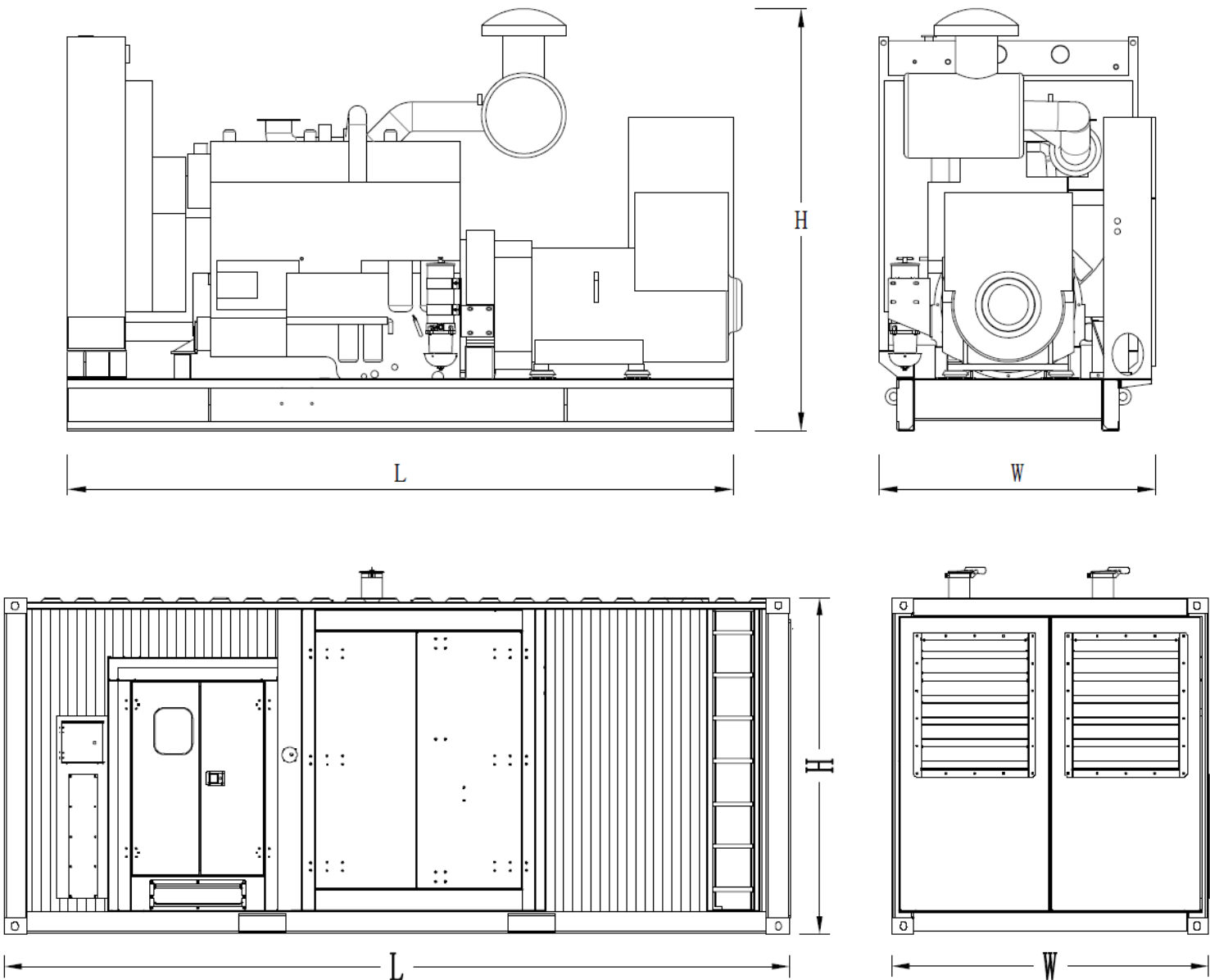
- Manual/auto/stop/start
- Setting button
- Fault status indicators
- Screen menu selection button
- Emergency stop button
- Digital displayer



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	PPE1250B
Prime Rating (kw)	900
Standby Rating (kw)	1000
Rate current(A)	1624
Power factor	0.8
Frequency(Hz)	50
Engine	
Engine Model	4008-30TAG3
Gross Engine output-Prime (kw)	947
Gross Engine output-Standby (kw)	1055
Bore * stroke (mm)	160*190
Cylinders and structure	8 In line
Displacement(Liter)	30.561
Compression Ratio	13.1:1
Intake way	Turbocharged and air-to-air charge cooled
Max intake resistance (KPa)	3.7
Air intake (m3/h)	5040
Max exhaust back pressure (KPa)	7
Exhaust gas flow (m3/h)	12180
Exhaust temp (°C)	473
Cooling way	Water Radiator & Fan
Fan exhaust flow (m3/min)	1176
Coolant capacity (L)	140
Highest water temperature(°C)	98
Minimum air opening to room (m2)	6.5/5.5
Thermostat range (°C)	84-93
Max oil temperature (°C)	105
Lubrication system oil capacity (L)	153
Rate load fuel consumption(L/H)	244
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	5000*2100*2400	8600	-
Silent Type	-	-	-

Contact Us

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