

PPE2500B

Prime Power: 1800KW/2250KVA Standby Power:2000KW/2500KVA Voltage: 400V

Powered by Perkins 4016-61TRG3 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 $\leq +10\% \leq -15\%$
- 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 / IS08528:2018
(2) GB/T 4712-2008 (3) YD/T 502-2020 (4) YD/T 1051-2018

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

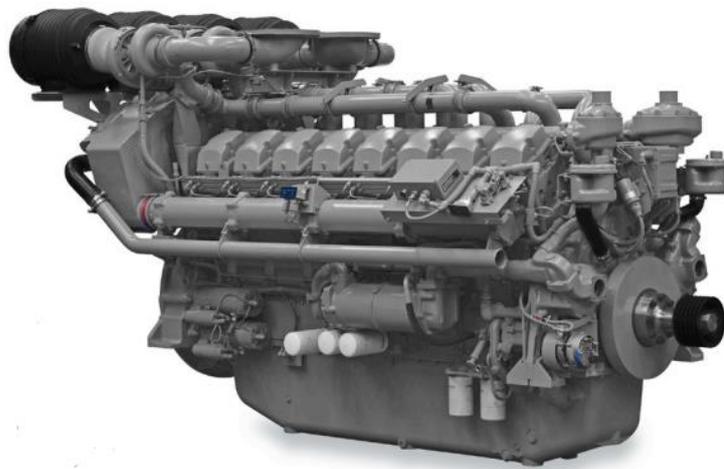
Optional Items

- 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.



Diesel Engine

- Model: 4016-61TRG3
- The Perkins® 4000 Series 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;
- The 4016-61TRG3 is a turbocharged, air-to-water chargecooled, 16 cylinder diesel engine;
- Its premium design and specification features provide economic and durable operation as well as exceptional power to weight ratio, improved serviceability, low gaseous emissions, overall performance and reliability essential to the power generation market. The 4016-61TRG3 is specially tuned for improved load acceptance response in standby duty;
- Individual 4 valve per cylinder give optimised gas flows;
- Unit fuel injectors ensure ultra fine fuel atomisation and hence controlled rapid combustion;
- Commonality of components with other engines in the 4000 Series family for reduced stocking level;
- Capable emissions of 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 F_1
- 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

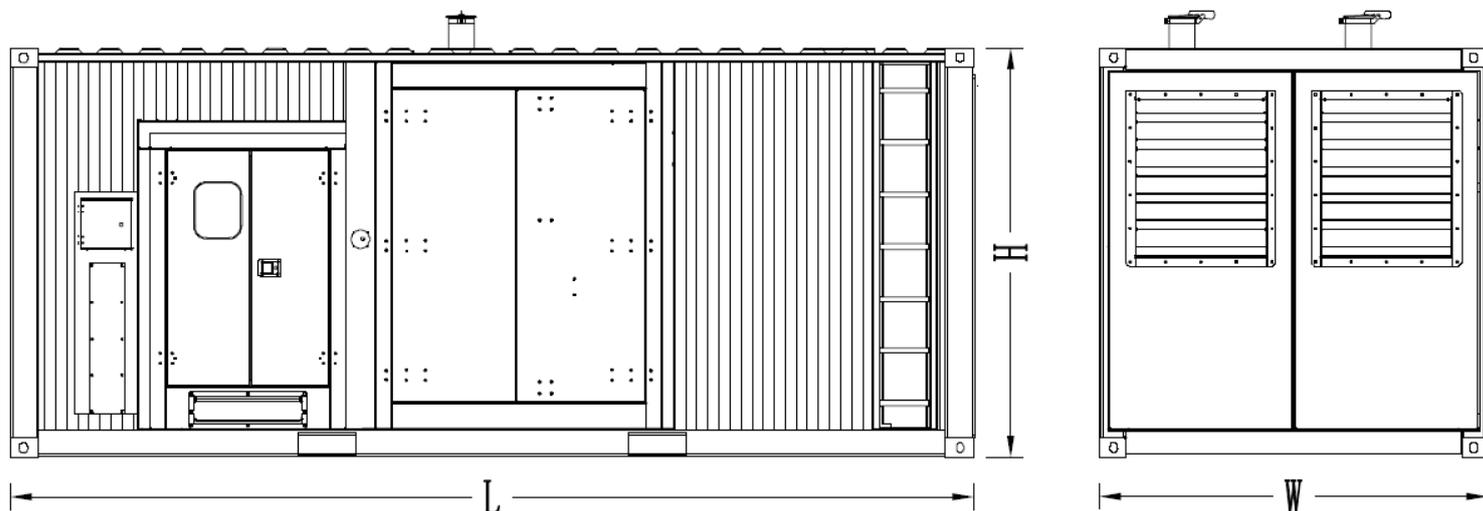
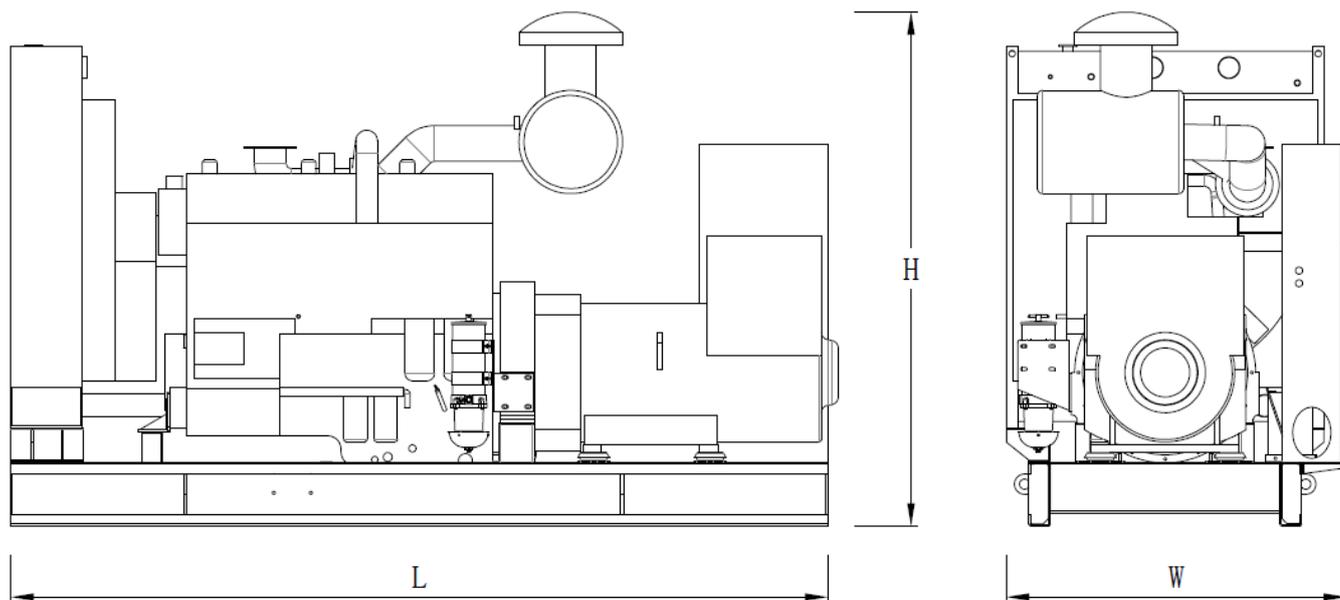
- Manual/auto/stop/start
- Setting button
- Fault status indicators
- Screen menu selection button
- Emergency stop button
- Digital displayer



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	PPE2500B
Prime Rating (kw)	1800
Standby Rating (kw)	2000
Rate current(A)	3248
Power factor	0.8
Frequency(Hz)	50
Engine	
Engine Model	4016-61TRG3
Gross Engine output-Prime (kw)	1875
Gross Engine output-Standby (kw)	2083
Bore * stroke (mm)	160*190
Cylinders and structure	16 60° Vee form
Displacement(Liter)	61.123
Compression Ratio	13:1
Intake way	Quad turbocharged. air to water charge cooled
Max intake resistance (KPa)	3.7
Air intake (m3/h)	9600
Max exhaust back pressure (KPa)	4
Exhaust gas flow (m3/h)	31500
Exhaust temp (°C)	475
Cooling way	Water Radiator & Fan
Fan exhaust flow (m3/min)	2430
Coolant capacity (L)	492
Highest water temperature(°C)	98
Minimum air opening to room (m2)	10.0/9.0
Thermostat range (°C)	71-85
Max oil temperature (°C)	105
Lubrication system oil capacity (L)	237.2
Rate load fuel consumption(L/H)	470
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	7000*2300*2800	18500	-
Silent Type	-	-	-

Contact Us

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