



PPE1100B

Prime Power:800KW/1000KVA Standby Power: 880KW/1100KVA Voltage: 400V

Powered by Perkins 4008TAG2A Engine

Genset Performance

- 230/400V, 50Hz, 0.8PF, 3 Phases 4 wires
- Frequency drop ≤3%
- Voltage regulation
- The steady state frequency <0.5%
- The steady state voltage deviation $\leq \pm 1\%$
- The transient frequency deviation \leq +10% \leq -15%

≤3S

 \leq 1S(Voltage \pm 3%)

- The transient voltage deviation ≤+20% ≤-15%
- Frequency recovery time
- Voltage recovery time
- THF (Telephone Harmonic Factor) <3</p>
- 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
- 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

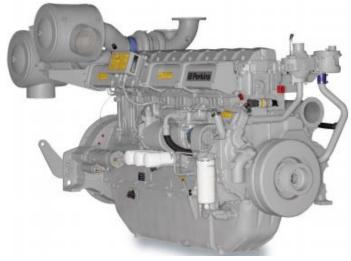
- Perkins Engine
- Brushless synchronous alternator
- POWERTEC intelligent controller
- 40°C standard ambient temperature (50°C Optional)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- Manual book and files





Diesel Engine

- Model: 4008TAG2A
- The Perkins® 4000 Series family of 6, 8, 12 and 16 cylinder diesel engines was designed in advance of today's uncompromising demands within the power generation industry and includes superior performance and reliability;
- The 4008TAG2A is a turbocharged and air-to-air charge cooled, 8 cylinder diesel engine offered with either temperate or tropical cooling. 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;
- Commonality of components with other engines in the 4000 Series family for reduced stocking levels;
- 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 satify tough environment.
- Rotor dynamic balancing complys for BS5625, class 2.5
- Sealed with advanced lubricating grease to prolong life of bearing.





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 °C 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)

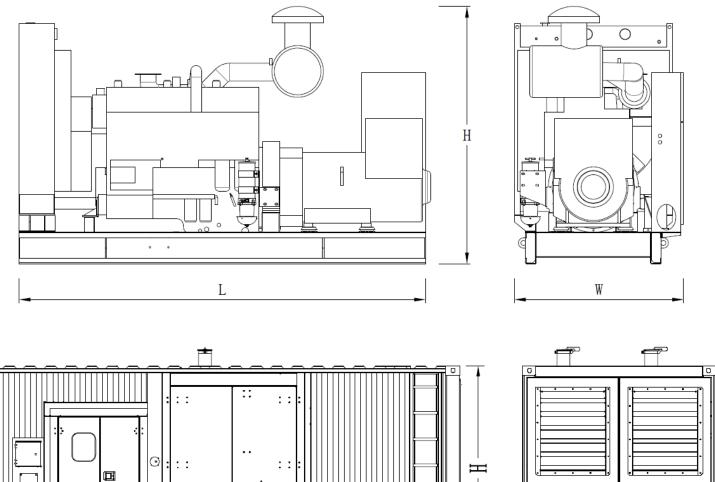
International standard MODBUS communication protocol RS232/RS485 is suitable for remote control and monitor; It is easy integrated with SCADA;.

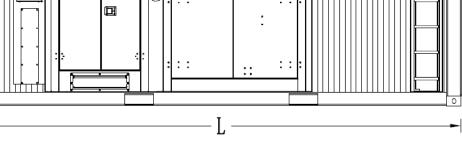


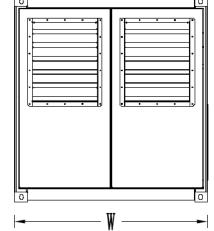
G	enset			
Model	PPE1100B			
Prime Rating (kw)	800			
Standby Rating (kw)	880			
Rate current(A)	1443			
Power factor	0.8			
Frequency(Hz)	50			
Engine				
Engine Model	4008TAG2A			
Gross Engine output-Prime (kw)	861			
Gross Engine output-Standby (kw)	924			
Bore * stroke (mm)	160*190			
Cylinders and structure	8 In line			
Displacement(Liter)	30.561			
Compression Ratio	13.6:1			
Intake way	Turbocharged and air-to-air charge cooled			
Max intake resistance (KPa)	3.7			
Air intake (m3/h)	4500			
Max exhaust back pressure (KPa)	6			
Exhaust gas flow (m3/h)	12000			
Exhaust temp (°C)	438			
Cooling way	Water Radiator & Fan			
Fan exhaust flow (m3/min)	1095			
Coolant capacity (L)	149			
Highest water temperature(℃)	101			
Minimum air opening to room (m2)	6.5/5.5			
Thermostat range (°C)	71-85			
Max oil temperature (°C)	105			
Lubrication system oil capacity (L)	153			
Rate load fuel consumption(L/H)				
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	Н			
Со	ntroller			
Brand	POWERTEC			

Dimension and Weight









Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	5096*2072*2344	8400	-
Silent Type	-	-	-

Contact Us

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