



PPE2250B

Prime Power: 1600KW/2000KVA Standby Power:1800KW/2250KVA Voltage: 400V

Powered by Perkins 4016TAG2A 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 \leq +10% \leq -15%

≤3S

 \leq 1S(Voltage \pm 3%)

- The transient voltage deviation \leq +20% \leq -15%
- Frequency recovery time
- Voltage recovery time
- 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
- 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: 4016TAG2A
- 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 4016TAG2A is a turbocharged, air-to-air charge-cooled, 16 cylinder vee form 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 4016TAG2A 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 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

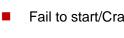
- Emergency stop
- Alarm for low/high battery voltage
- Low battery voltage
- Fail to start/Cranking fail
- **Over Voltage**
- **Over frequency**
- Under frequency
- Screen menu selection button
- Emergency stop button
- **Digital displayer**



Communication Interface

(Option)

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

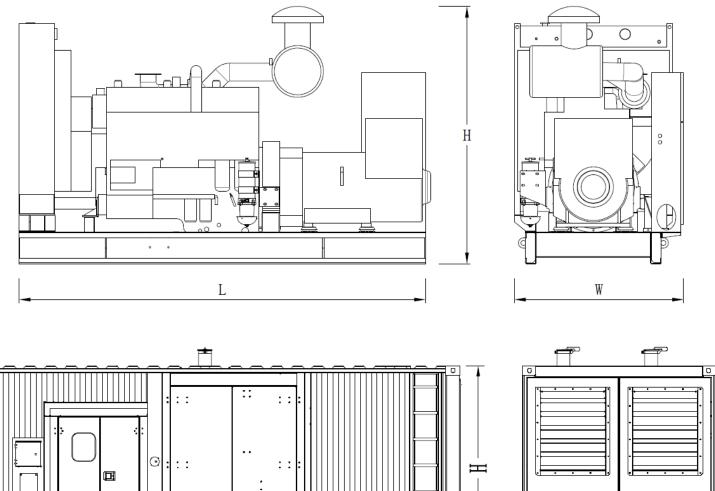


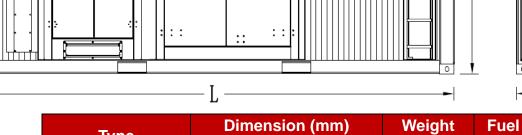


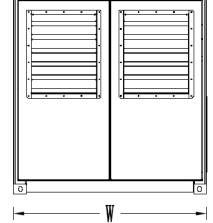
Model PPE2250B Prime Rating (kw) 1600 Standby Rating (kw) 1800 Rate current(A) 2887 Power factor 0.8 Frequency(Hz) 50 Engine Model 4016TAG2A Gross Engine output-Prime (kw) 1715 Gross Engine output-Standby (kw) 1860* Bore * stroke (mm) 160*190 Cylinders and structure 16 60° Vee form Displacement(Liter) 61.123 Compression Ratio 13.6:1 Intake way Turbocharged and air to air charge cooled Max intake resistance (KPa) 3.7 Air intake (m3/h) 8220 Max exhaust back pressure (KPa) 6.6 Exhaust termp (°C) 493 Cooling way Water Radiator & Fan Fan exhaust form (m3/hin) 2430 Cooling way 10.0/9.0 Thermostat range (°C) 105 Lubrication system oil capacity (L) 237.2 Rate load fuel consumption(L/H) 434 Standard Governor/Class Electronic speed re	Genset			
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Exhaust temp (°C) 493 Cooling way Water Radiator & Fan Fan exhaust flow (m3/min) 2430 Coolant capacity (L) 316 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) 434 Standard Governor/Class Electronic speed regulation Alternator 0utput Way 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 IIP21-23 Insulation class H Controller Kontroller	Max exhaust back pressure (KPa)	6.6		
Cooling wayWater Radiator & FanFan exhaust flow (m3/min)2430Coolant capacity (L)316Highest water temperature(°C)98Minimum air opening to room (m2)10.0/9.0Thermostat range (°C)71-85Max oil temperature (°C)105Lubrication system oil capacity (L)237.2Rate load fuel consumption(L/H)434Standard Governor/ClassElectronic speed regulationAlternator0Qutput Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classHController	Exhaust gas flow (m3/h)	23220		
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Thermostat range (°C)71-85Max oil temperature (°C)105Lubrication system oil capacity (L)237.2Rate load fuel consumption(L/H)434Standard Governor/ClassElectronic speed regulationAlternatorRated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classH	Highest water temperature(℃)	98		
Max oil temperature (°C) 105 Lubrication system oil capacity (L) 237.2 Rate load fuel consumption(L/H) 434 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	Minimum air opening to room (m2)	10.0/9.0		
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Rate load fuel consumption(L/H)434Standard Governor/ClassElectronic speed regulationAlternatorRated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classHController	Max oil temperature (°C)	105		
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	Lubrication system oil capacity (L)	brication system oil capacity (L) 237.2		
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Rated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classHController	Rated Voltage(V)	230/400		
ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classHController	Output Way	3 Phases, 4 wires		
Max voltage regulation ±1% Phase 3 Protection class IP21-23 Insulation class H Controller	Rated power factor	0.8		
Phase 3 Protection class IP21-23 Insulation class H Controller	Exciter	Brushless, Self-exciter		
Protection class IP21-23 Insulation class H Controller	Max voltage regulation	±1%		
Insulation class H Controller	Phase	3		
Controller	Protection class	IP21-23		
	Insulation class	Н		
Brand POWERTEC	Controller			
	Brand	POWERTEC		

Dimension and Weight









Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	6700*2300*2800	16500	-
Silent Type	-	-	-

Contact Us

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Powertec Generator System Inc.

Add:	Danshui Yanna Industry Zone, Huiyang, Huizhou, Guangdong, China
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Email:	powertec@powertec.com.cn