



# 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</li>
   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

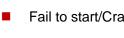
- Emergency stop
- Alarm for low/high battery voltage
- Low battery voltage
- Fail to start/Cranking fail
- **Over Voltage**
- **Over frequency**
- Under frequency
- Screen menu selection button
- Emergency stop button
- **Digital displayer**



# **Communication Interface**

### (Option)

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

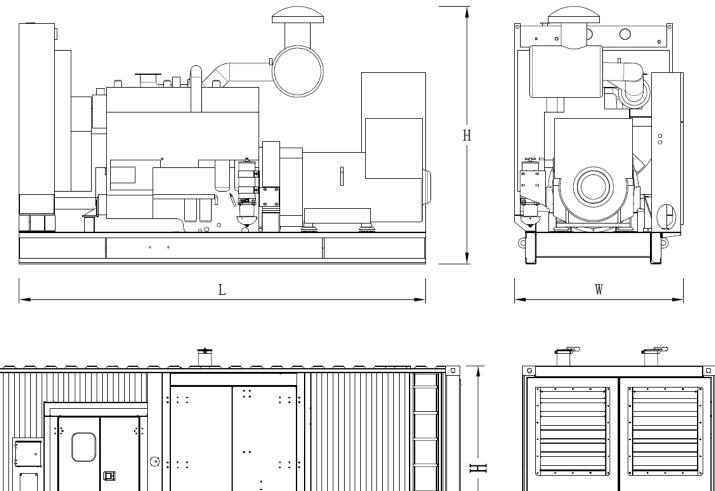


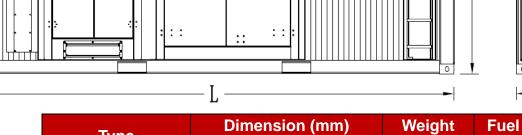


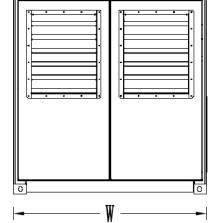
Model         PPE2250B           Prime Rating (kw)         1600           Standby Rating (kw)         1800           Rate current(A)         2887           Power factor         0.8           Frequency(Hz)         50           Engine Model         4016TAG2A           Gross Engine output-Prime (kw)         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			
Standby Rating (kw)         1800           Rate current(A)         2887           Power factor         0.8           Frequency(Hz)         50           Engine         6           Gross Engine output-Prime (kw)         1715           Gross Engine output-Standby (kw)         1886           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 gas flow (m3/h)         23220           Exhaust gas flow (m3/h)         23220           Exhaust gas flow (m3/h)         2430           Cooling way         Water Radiator & Fan           Fan exhaust flow (m3/min)         2430           Colong way         Water Radiator & Fan           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)	Model	PPE2250B		
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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 gas flow (m3/h)       23220         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       0.8         Rated Voltage(V)       230/400         Output Way       3 Phases, 4 wires         Rated Voltage(V)       230/400         Output Way       3 Phases, 5 self-exciter         Max voltage regulation       ±1%	Gross Engine output-Standby (kw)	1886		
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 gas flow (m3/h)         23220           Exhaust gas flow (m3/h)         23220           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         0.8           Rated Voltage(V)         230/400           Output Way         3 Phases, 4 wires           Rated power factor         0.8           Exciter         Brushless, Self-exciter <t< td=""><td>Bore * stroke (mm)</td><td>160*190</td></t<>	Bore * stroke (mm)	160*190		
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Max exhaust back pressure (KPa)       6.6         Exhaust gas flow (m3/h)       23220         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       0.8         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	Max intake resistance (KPa)	3.7		
Exhaust gas flow (m3/h)23220Exhaust temp (°C)493Cooling 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 Voltage(V)0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classHController	Air intake (m3/h)	8220		
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		
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       230/400         Output Way       3 Phases, 4 wires         Rated Voltage(V)       230/400         Output Way       3 Phases, 5 elf-exciter         Max voltage regulation       ±1%         Phase       3         Protection class       IP21-23         Insulation class       H	Exhaust temp (°C)	493		
Coolant 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 regulationAlternatorRated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classH	Cooling way	Water Radiator & Fan		
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       Alternator         Qutput Way       3 Phases, 4 wires         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	Fan exhaust flow (m3/min)	2430		
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       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	Coolant capacity (L)	316		
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		
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       IIP21-23         Insulation class       H	Thermostat range (°C) 71-85			
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		
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	Rate load fuel consumption(L/H)	434		
Rated Voltage(V)230/400Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classH	Standard Governor/Class	Electronic speed regulation		
Output Way3 Phases, 4 wiresRated power factor0.8ExciterBrushless, Self-exciterMax voltage regulation±1%Phase3Protection classIP21-23Insulation classHController	Alternator			
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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