



PPE1375B

Prime Power: 1000KW/1250KVA Standby Power:1100KW/1375KVA Voltage: 400V

Powered by Perkins 4012-46TWG2A Engine

Genset Performance

230/400V	50Hz, 0.8PF, 3 P	hases 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 ≤+10% ≤-15%

■ The transient voltage deviation ≤+20% ≤-15%

■ Frequency recovery time ≤3S

■ Voltage recovery time ≤1S(Voltage±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.



Equipment Instruction

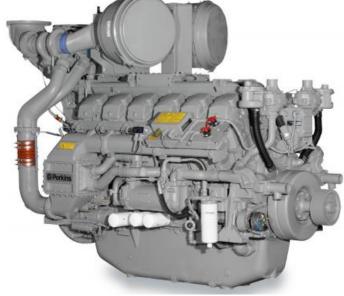


Diesel Engine

- Model: 4012-46TWG2A
- The 4012-46TWG engine has been developed using the latest engineering techniques and builds on the strengths of the already very successful 4012 Series family and addresses today's uncompromising demands within the power generation industry;
- Developed from a proven engine range that offers superior performance and reliability;
- The 4012-46TWG2A is a turbocharged and air-to-water charge-cooled, 12 cylinder diesel engine which offers a choice of temperate or tropical cooling. Its premium features provide exceptional power-to-weight ratio resulting in exceptional fuel consumptiont;
- The overall performance and reliability characteristics makes this one of the prime choices for today's power generation industry;
- 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.





Intelligent Control System



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 [®] 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;.

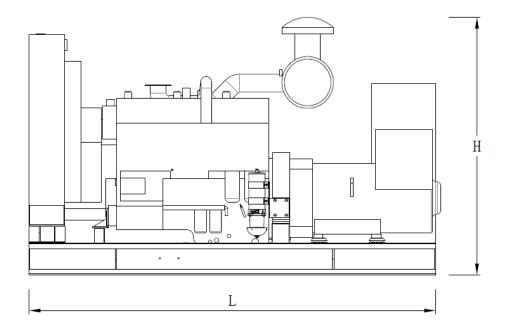
Data sheet of Genset

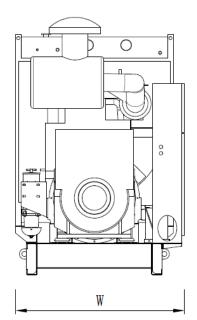


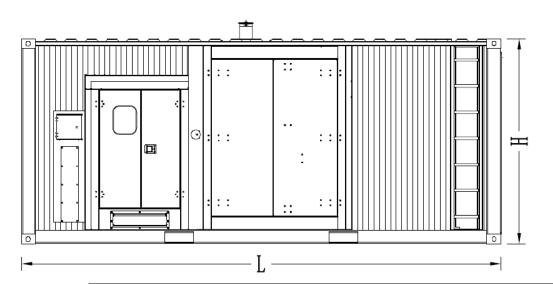
Genset						
Model	PPE1375B					
Prime Rating (kw)	1000					
Standby Rating (kw)	1100					
Rate current(A)	1804					
Power factor	0.8					
Frequency(Hz)	50					
Engine						
Engine Model	4012-46TWG2A					
Gross Engine output-Prime (kw)	1055					
Gross Engine output-Standby (kw)	1166					
Bore * stroke (mm)	160*190					
Cylinders and structure	12 60° Vee form					
Displacement(Liter)	45.842					
Compression Ratio	13.6:1					
Intake way	Turbocharged and air to water charge cooled					
Max intake resistance (KPa)	3.7					
Air intake (m3/h)	6120					
Max exhaust back pressure (KPa)	5					
Exhaust gas flow (m3/h)	13800					
Exhaust temp (°C)	422					
Cooling way	Water Radiator & Fan					
Fan exhaust flow (m3/min)	1300					
Coolant capacity (L)	201					
Highest water temperature(℃)	98					
Minimum air opening to room (m2)	6.8/6.0					
Thermostat range (℃)	84-93					
Max oil temperature (°C)	105					
Lubrication system oil capacity (L)	177					
Rate load fuel consumption(L/H)	259					
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					
Controller						
Brand	POWERTEC					

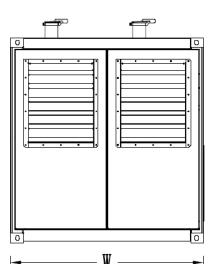
Dimension and Weight











Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	4900*2152*2435	8500	-
Silent Type	-	-	-

Contact Us

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