



Prime Power: 7KW/9KVA



Voltage: 400V

Powered by Perkins 403A-11 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
- 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)
- Circuit breaker (3P)
- Float battery charger
- Battery connect wire
- Steel base frame
- Silencer, bellows, exhaust bend
- Bottom fuel tank
- Manual book and files





Diesel Engine

- Model: 403A-11
- The Perkins® 400 Series engine family continues to set new standards in the compact engine market. Developed alongside customers to fulfill their needs in the generator set, compressor, agricultural and general industrial markets;
- These new ElectropaKs provide compact power, from a robust family of 3 and 4 cylinder diesel engines designed to provide economic and durable operation at Prime and Standby duties, hitting the key power nodes required by the power generation industry;
- The 403A-11 ElectropaK is a powerful but quiet 1.1 litre naturally aspirated 3-cylinder compact package;
- Design features on the 400 Series ElectropaKs ensure clean rapid starting in all conditions whilst delivering impressive performance, with low operating costs, in a small, efficient package size;



- Approved for operation on biodiesel* concentrations of up to 20%;
- Oil and filter changes are 500 hours, dependent on load factor;
- Engine durability and reliability, the warranty offering and ease of installation combine to drive down the cost of ownership;

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;.

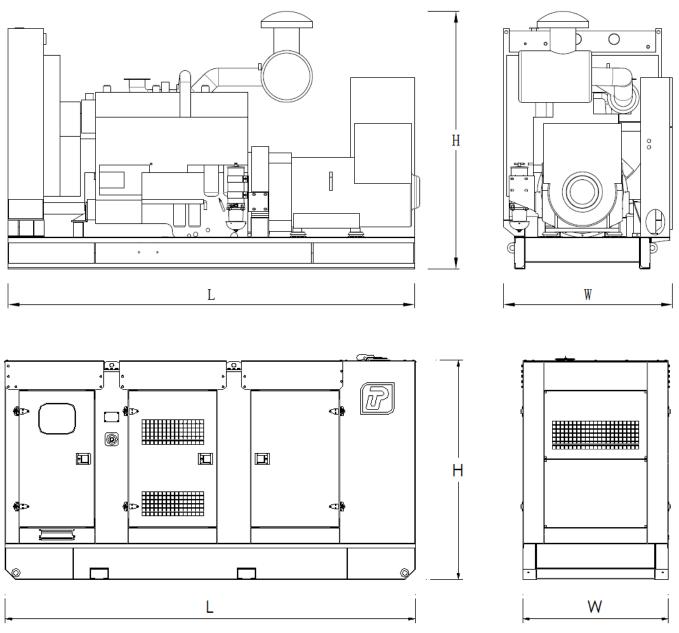
- Over freq
 Under freq



Model PPE10A Prime Rating (kw) 7 Standby Rating (kw) 8 Rate current(A) 12.6 Power factor 0.8 Frequency(Hz) 50 Engine 6 Engine Model 403A-11 Gross Engine output-Prime (kw) 8.4 Gross Engine output-Standby (kw) 9.2 Bore ' stroke (mm) 77*81 Cylinders and structure 3 In line Displacement(Liter) 1.131 Compression Ratio 23:1 Intake way inhale naturally Max intake resistance (KPa) 6.4 A'ri intake (m3/h) 42 Max exhaust back pressure (KPa) 10.2 Exhaust gas flow (m3/h) 99.6 Exhaust gas flow (m3/h) 40.2 Cooling way Water Radiator & Fan Fan exhaust flow (m3/h) 40.2 Cooling way Uater Radiator & Fan Fan exhaust flow (m3/min) 40.2 Cooling way Uater Radiator & Fan Thermoset range (°C) 112<	Genset		
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Max voltage regulation ±1% Phase 3 Protection class IP21-23 Insulation class H Controller	Rated power factor		
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Protection class IP21-23 Insulation class H Controller	Max voltage regulation	±1%	
Insulation class H Controller	Phase	3	
Controller	Protection class	on class IP21-23	
	Insulation class	Н	
	Controller		
Brand POWERTEC	Brand POWERTEC		

Dimension and Weight





Туре	Dimension (mm) (L*W*H)	Weight (kg)	Fuel Tank Capacity (L)
Open Type	1300*750*1200	350	50
Silent Type	2300*900*1550	900	160

Contact Us

Powertec Generator System Inc.

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Email:	powertec@powertec.com.cn