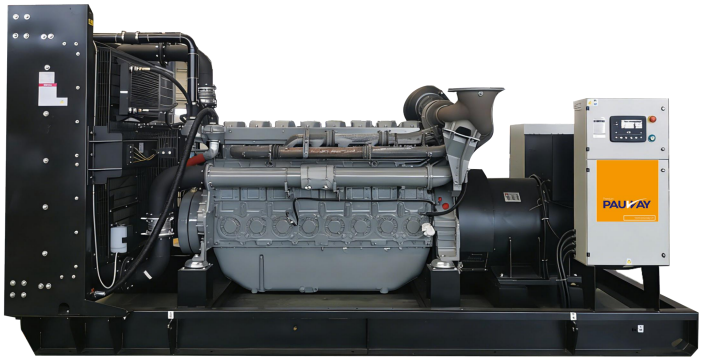
GENERATOR SET TECHNICAL SHEET

PAUWAY

Model: PWP220AA

400V | 50Hz | 1500RPM



ENGINE	Perkins 1206D-	ALTERNATOR	Leroy-somer TAL-A44-M
PRP PRIME POWER	160kW 200kVA	ESP STANDBY POWER	176kW 220kVA

Specifications are subject to change without notice.

GENERAL FEATURES

GB/T 2820（ISO 8528）

- 40℃ radiator, fans are driven by belt, with safety guard
- Alternator: single bearing, IP23, insulation class H
- Standard control panel
- Lead-acid batteries, rack and cables
- Vibration damper
- Dry type air filter, fuel filter & oil filter
- 24V charging alternator
- Exhaust bellows, elbows, flange & muffler
- User manual

Standard Configuration (open type)

Overall Dimensions：2400×800×1500mm
Weight：1780kg

Soundproof Type

Overall Dimensions：3380×1150×1800mm
Weight：2550kg

Standard 20'ft GP container

Overall Dimensions：N/A
Weight：N/A

OPTIONS

- ◇ Different Voltage
- ◇ Charging
- ◇ Cylinder Liner Water Heater
- ◇ Condensate drain heater
- ◇ Soundproof type
- ◇ Rainproof type
- ◇ Trailer type
- ◇ Automatic transfer switch
- ◇ Paralleling system
- ◇ Switchgear
- ◇ Spare parts
- ◇ Auto oil replenishment system
- ◇ Daily fuel tank
- ◇ Base fuel tank

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SALES PROMISES

- All products are brand-new, with each unit subject to strict factory inspection.
- Warranty: 1 year from commissioning completion, 1,000 cumulative operating hours, or 15 months from shipment to Pauway Tianjin Manufacturing Base (for unused units) — whichever occurs first.
- Extended warranty: Available upon inquiry; provided by Bowei or its authorized agents.

GENERATOR RATINGS

Voltage V	Hz	Phase	PF (COSΦ)	Standby Amps	Prime Ratings	Standby Ratings
440/254	50	3	0.8	289	160kW	176kW
415/240	50	3	0.8	306	160kW	176kW
400/230	50	3	0.8	318	160kW	176kW
380/220	50	3	0.8	334	160kW	176kW

I High voltage (optional): 6.3kV / 10.5kV (Special voltages customizable)

GENERATING SET DATA

Voltage setting range	≥±5%
Steady-state voltage deviation	≤±1%
Transient voltage deviation / 100% sudden reduction	≤20%
Transient voltage deviation / sudden increase	≤-15%
Voltage stabilization time / 100% sudden reduction (s)	≤4
Voltage stabilization time / sudden increase (s)	≤4
Frequency drop	≤3%
Steady-state frequency drop	≤0.5%
Transient frequency deviation / 100% sudden reduction	≤10%
Transient frequency deviation / sudden increase	≤-7%
Frequency recovery time / 100% sudden reduction (s)	≤3
Frequency stabilization time / sudden increase (s)	≤3

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ENGINE SPECIFICATION

1206D-E70TTAG1

Manufacturer / Model	Perkins 1206D-E70TTAG1	
Prime Power	186.3kW	
Standby Power	204.9kW	
Rated speed（r/min）	1500	
No.Cylinder	6	
Cylinder arrangement	L	
Stroke	4	
Air intake system	Twin turbocharged, aftercooled	
Governor type	Electronic	
Bore and stroke	105x135mm	
Displacement	7.01L	
Compression ratio	15.8：1	
Fuel System		
Fuel consumption @ 100% (Prime Power) Load	204g/kWh	L/h
Fuel consumption @ 75% (Prime Power) Load	205g/kWh	L/h
Fuel consumption @ 50% (Prime Power) Load	210g/kWh	L/h
Exhaust System		
Exhaust gas flow（L/S）	408.3	
Exhaust temperature（℃）	445	
Max back pressure（kPa）	16.5	
Air Intake System		
Combustion air flow（L/S）	180	
Air flow required for radiator		
Air Intake System	Air filter & exhaust turbocharging	
Oil System		
Oil System	Oil filter、Oil pump、Oil dipstick	
Total oil capacity（L）	16	
Oil consumption（g/kWh）	0.08% of fuel consumption	
Cooling System		
Cooling Type	Water-cooled	
Intercooling method	Air-to-air	
Cooling System	Thermostat、Water pump、Radiator、Intercooler	
Coolant capacity(L)	32.3	
Max water temperature（℃）	112	

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ALTERNATOR SPECIFICATION

Power（kVA）	200
Power（kW）	160
Alternator Efficiency(%)	93
Number of Bearing	1
Power Factor	0.8
Protection Class	IP23
Altitude	≤1000m
Exciter Type	Brushless exciting
Insulation Class/Temperature Rise	H/H
THF	＜2%

Industrial alternators meet the requirements of the relevant parts of the BS5000, VDE 0530, NEMA MG1-22, IEC34, CSA 22.2-100 and AS1359.

·Note: Generator parameters may vary depending on brand, voltage level and other factors

Control Functions

Main functions

- 4-line text display
- Multi-language display
- 5 menu navigation keys
- LCD alarm indication
- Customizable startup screen, text and screen saver
- Compatible with all expansion modules
- Data logging
- Built-in powerful PLC function
- Emergency mode (all protections disabled)
- Front panel editable parameters (with password protection)
- Power-saving mode
- 3-phase generator detection and protection
- 3-phase mains detection and protection (PEC6.12 only)
- ATS switch control (PEC6.12 only)
- Unit current and power monitoring (kW, kvar, kVA, pf)
- Mains current and power monitoring (kW, kvar, kVA, pf)
- Overload protection
- Overcurrent protection
- Front panel manual control of circuit breaker closing/opening
- Customizable fuel and start output ports for EFI engines
- 6 customizable output channels
- 4 customizable analog/digital input channels
- Supports 0-10V or 4-20mA sensors
- Speed detection via CAN, MPU and generator frequency
- Built-in real-time clock (RTC)
- Manual/automatic fuel pump control
- Engine pre-heating and post-heating
- Built-in powerful PLC function
- Preset multiple start-stop cycles
- Engine start/stop idle speed
- Fuel level alarm
- 3 customizable maintenance reminders
- Supports EFI engines, including Tier 4 engines
- Parameter setting via free DSE software
- IP65 protection rating for better water resistance
- Can read parameters of other devices via CAN communication
- Supports J1939-75 CAN communication
- Shield EFI engine CAN alarms
- 1 set of backup protection parameters

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PAUWAY HIGHLIGHT

/// Efficiency
- Low consumption
- High reliablity
- High quality power supply
- Long maintenance cycle

/// Support
- Provide global product warranty and technical

/// Standard
- The generator set is designed and manufactured in
- The engine used conforms to ISO 2008:9001 and
- The generator used conforms to NEMA MG1, EN and IEC standards

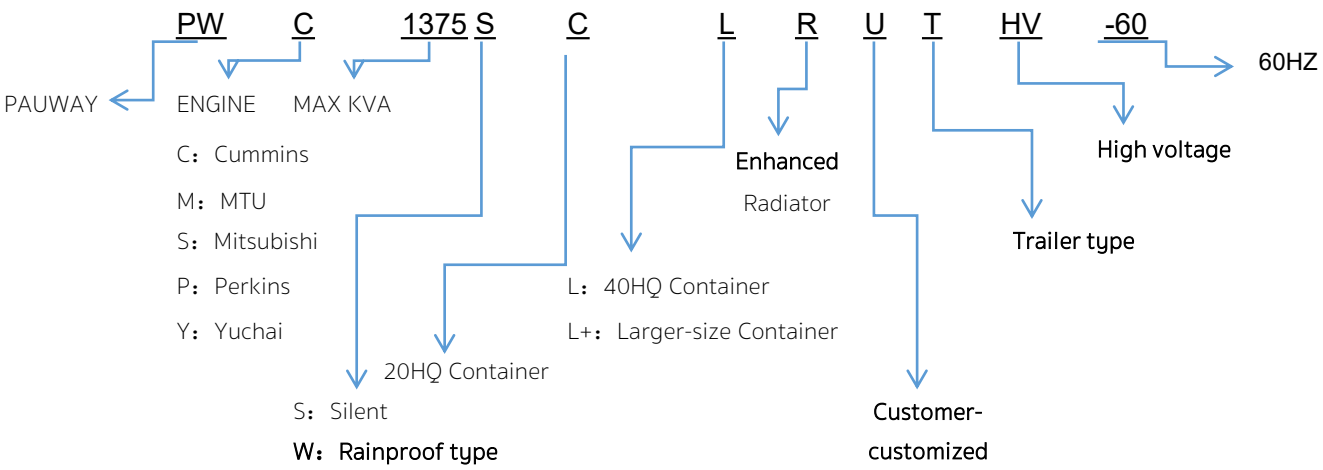
/// Rated power
- System Rating: power will vary with the change of alternator
- According to ISO 8528-5, the generator set conforms to G3
- According to ISO 8528-5, the generator set is allowed to use standby power

/// Performance assurance certification (PAC)
- Meeting ISO 8528-5 test transient response of genset
- Strong load carrying capacity at one time
- Product design, quality and performance
- All systems have been factory tested.

/// Provide full set of spare sparts
- Control panel
- Circuit breaker/Power distribution
- Fuel system
- Exhausting system
- Fuel connection with shut-off valve mounted on base
- Starting / charging system
- Mechanical / electrical driven radiator system
- Suitable model of AC alternator

/// Certification
- CE certificate

NAMING PRINCIPLE



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