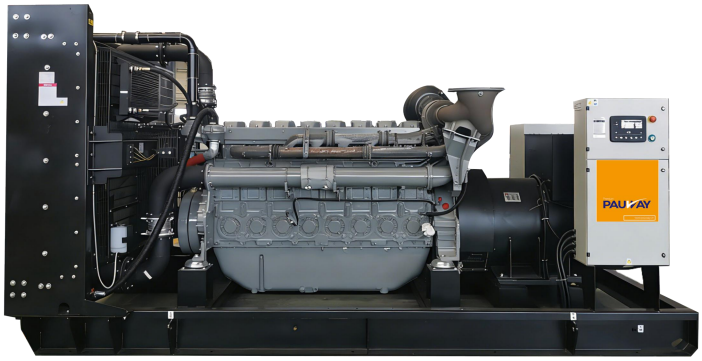
# GENERATOR SET TECHNICAL SHEET

PAUWAY

## Model： PWP275

400V | 50Hz | 1500RPM



| | | | |
|---|---|---|---|
| ENGINE | Perkins 1206A- | ALTERNATOR | Leroy-somer TAL-A46-D |
| PRP PRIME POWER | 200kW 250kVA | ESP STANDBY POWER | 220kW 275kVA |

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：2400×900×1700mm
Weight：1930kg

Soundproof Type

Overall Dimensions：3680×1250×2000mm
Weight：2880kg

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 | 361 | 200kW | 220kW |
| 415/240 | 50 | 3 | 0.8 | 383 | 200kW | 220kW |
| 400/230 | 50 | 3 | 0.8 | 397 | 200kW | 220kW |
| 380/220 | 50 | 3 | 0.8 | 418 | 200kW | 220kW |

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

1206A-E70TTAG3

| | | |
|---|---|---|
| Manufacturer / Model | Perkins 1206A-E70TTAG3 | |
| Prime Power | 226.8kW | |
| Standby Power | 248.5kW | |
| 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 | 212g/kWh | L/h |
| Fuel consumption @ 75% (Prime Power) Load | 205g/kWh | L/h |
| Fuel consumption @ 50% (Prime Power) Load | 205g/kWh | L/h |
| **Exhaust System** | | |
| Exhaust gas flow（L/S） | 510 | |
| Exhaust temperature（℃） | 492 | |
| Max back pressure（kPa） | 22.8 | |
| **Air Intake System** | | |
| Combustion air flow（L/S） | 128.3 | |
| 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） | 250 |
| Power（kW） | 200 |
| Alternator Efficiency(%) | 91.3 |
| 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

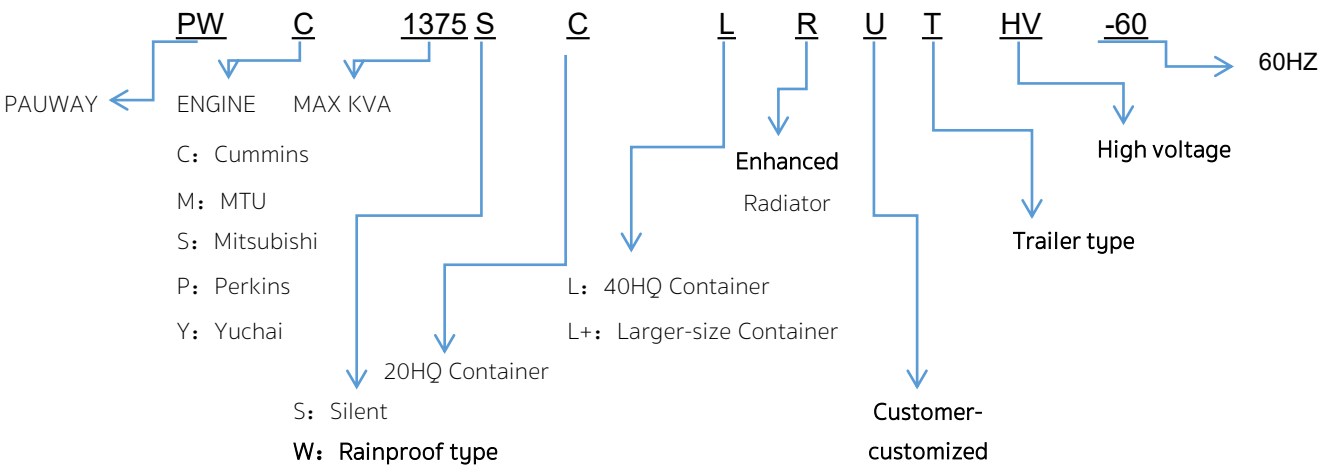
/// Rated power
- System Rating: power will vary with the change of alternator
- According to ISO 8528-5, the generator set conforms to G3
- According to ISO 8528-5, the generator set is allowed to use standby power

/// 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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