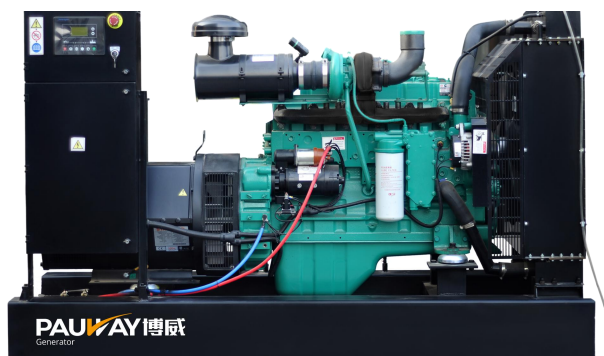


GENERATOR SET TECHNICAL SHEET

PAUWAY

Model: PWC105

400V | 50Hz | 1500RPM



ENGINE	CUMMINS 4BTA3.9-G13	ALTERNATOR	LEROY-SOMER TAL A44 D
PRP PRIME POWER	76kW 95kVA	ESP STANDBY POWER	84kW 105kVA

Specifications are subject to change without notice.

GENERAL FEATURES

GB/T 2820 (ISO 8528)

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

Standard Configuration (open type)

Overall Dimensions: 2185×990×1650mm
Weight: 1380kg

Soundproof Type

Overall Dimensions: 2750×1100×1800mm
Weight: 1800kg

Container Type

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 | | |

WAY TO

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GENERATOR SET TECHNICAL SHEET



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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 ($\cos\phi$)	Standby Amps	Prime Ratings	Standby Ratings
440/254	50	3	0.8	138	76kW	84KW
415/240	50	3	0.8	146	76kW	84KW
400/230	50	3	0.8	152	76kW	84KW
380/220	50	3	0.8	160	76kW	84KW

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

GENERATING SET DATA

Voltage setting range	$\pm 5\%$
Steady-state voltage deviation	$\leq \pm 1\%$
Transient voltage deviation / 100% sudden reduction	$\leq 25\%$
Transient voltage deviation / sudden increase	$\leq -20\%$
Voltage stabilization time / 100% sudden reduction (s)	≤ 6
Voltage stabilization time / sudden increase (s)	≤ 6
Frequency drop	$\leq 5\%$
Steady-state frequency drop	$\leq 1.5\%$
Transient frequency deviation / 100% sudden reduction	$\leq 12\%$
Transient frequency deviation / sudden increase	$\leq -10\%$
Frequency recovery time / 100% sudden reduction (s)	≤ 5
Frequency stabilization time / sudden increase (s)	≤ 5

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ENGINE SPECIFICATION

4BTA3.9-G13

Manufacturer / Model	CUMMINS 4BTA3.9-G13
Prime Power	87kW
Standby Power	97kW
Rated speed (r/min)	1500
No.Cylinder	4
Cylinder arrangement	L
Stroke	4
Air intake system	Turbo
Governor type	Electronic
Bore and stroke	102×120mm
Displacement	3.9L
Compression ratio	18.0:1

Fuel System

Fuel consumption @ 100% (Prime Power) Load	212g/kWh	18.8L/h
Fuel consumption @ 75% (Prime Power) Load	208g/kWh	14.1L/h
Fuel consumption @ 50% (Prime Power) Load	215g/kWh	10.1L/h

Exhaust System

Exhaust gas flow (L/S)	142
Exhaust temperature (℃)	380
Max back pressure (kPa)	10

Air Intake System

Combustion air flow (L/S)	79
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)	10.9
Oil consumption (g/kWh)	

Cooling System

Cooling Type	Water-cooled
Intercooling method	Water-air intercooled
Cooling System	Thermostat、Water pump、Radiator、Intercooler
Coolant capacity(L)	7.2(Engine Only)
Max water temperature (℃)	98

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ALTERNATOR SPECIFICATION

Power (kVA)	100
Power (kW)	80
Alternator Efficiency(%)	94.1
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	6 customizable output channels
Multi-language display	4 customizable analog/digital input channels
5 menu navigation keys	Supports 0-10V or 4-20mA sensors
LCD alarm indication	Speed detection via CAN, MPU and generator frequency
Customizable startup screen, text and screen saver	Built-in real-time clock (RTC)
Compatible with all expansion modules	Manual/automatic fuel pump control
Data logging	Engine pre-heating and post-heating
Built-in powerful PLC function	Built-in powerful PLC function
Emergency mode (all protections disabled)	Preset multiple start-stop cycles
Front panel editable parameters (with password protection)	Engine start/stop idle speed
Power-saving mode	Fuel level alarm
3-phase generator detection and protection	3 customizable maintenance reminders
3-phase mains detection and protection (PEC6.12 only)	Supports EFI engines, including Tier 4 engines
ATS switch control (PEC6.12 only)	Parameter setting via free DSE software
Unit current and power monitoring (kW, kvar, kVA, pf)	IP65 protection rating for better water resistance
Mains current and power monitoring (kW, kvar, kVA, pf)	Can read parameters of other devices via CAN communication
Overload protection	Supports J1939-75 CAN communication
Overcurrent protection	Shield EFI engine CAN alarms
Front panel manual control of circuit breaker closing/opening	1 set of backup protection parameters
Customizable fuel and start output ports for EFI engines	

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PAUWAY HIGHLIGHT

/// Efficiency

- Low consumption
- High reliability
- 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.

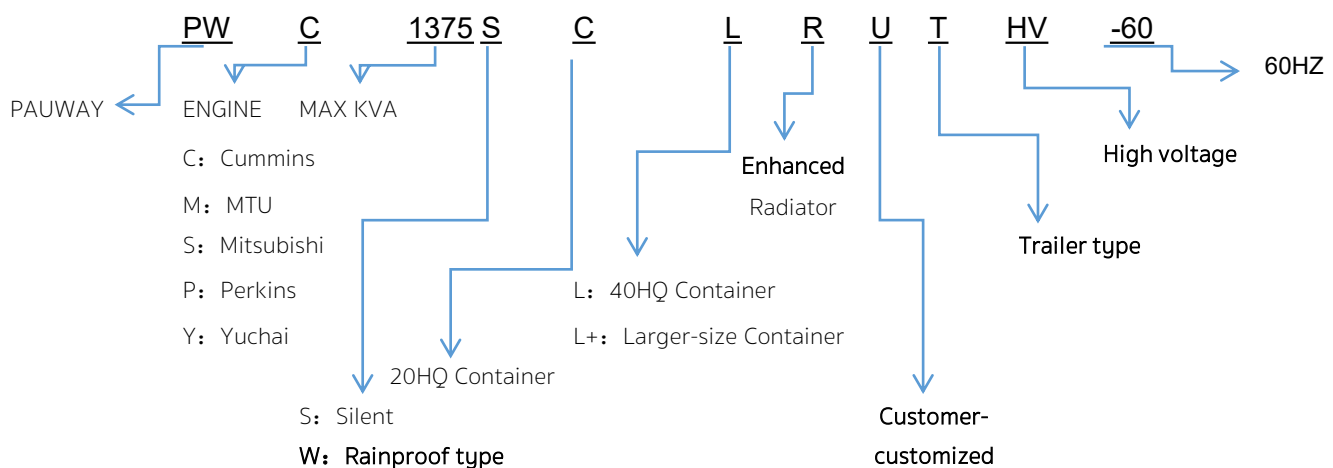
/// Provide full set of spare parts

- 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



PAUWAY

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