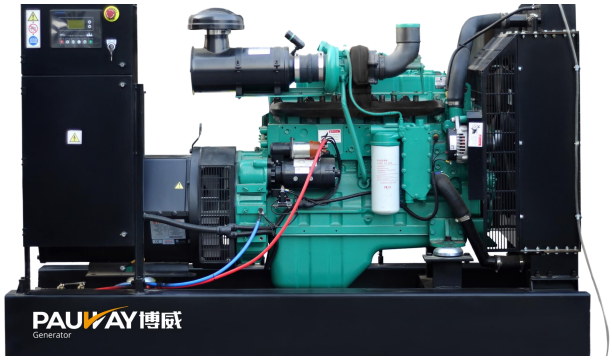
GENERATOR SET TECHNICAL SHEET

PAUWAY

Model: PWC50-60

440V | 60Hz | 1800RPM



ENGINE	CUMMINS 4BT3.9-G2	ALTERNATOR	LEROY-SOMER TAL A42 F
PRP PRIME POWER	36kW 45kVA	ESP STANDBY POWER	40kW 50kVA

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：1730×800×1600mm
Weight：900kg

Soundproof Type

Overall Dimensions：2200×1000×1800mm
Weight：1270kg

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

WAY TO

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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
480/277	60	3	0.8	60	36kW	40kW
440/254	60	3	0.8	66	36kW	40kW
416/240	60	3	0.8	69	36kW	40kW
380/220	60	3	0.8	76	36kW	40kW

I High voltage (optional): 6.6kV / 13.8kV (Special voltages customizable)

GENERATING SET DATA

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

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ENGINE SPECIFICATION

4BT3.9-G2

Manufacturer / Model	CUMMINS 4BT3.9-G2	
Prime Power	40kW	
Standby Power	44kW	
Rated speed（r/min）	1800	
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	221g/kWh	10.7L/h
Fuel consumption @ 75% (Prime Power) Load	230g/kWh	8.4L/h
Fuel consumption @ 50% (Prime Power) Load	255g/kWh	6.2L/h
Exhaust System		
Exhaust gas flow（L/S）	101	
Exhaust temperature（℃）	350	
Max back pressure（kPa）	10	
Air Intake System		
Combustion air flow（L/S）	53.1	
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	Air-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）	49
Power（kW）	39.2
Alternator Efficiency(%)	94.7
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 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

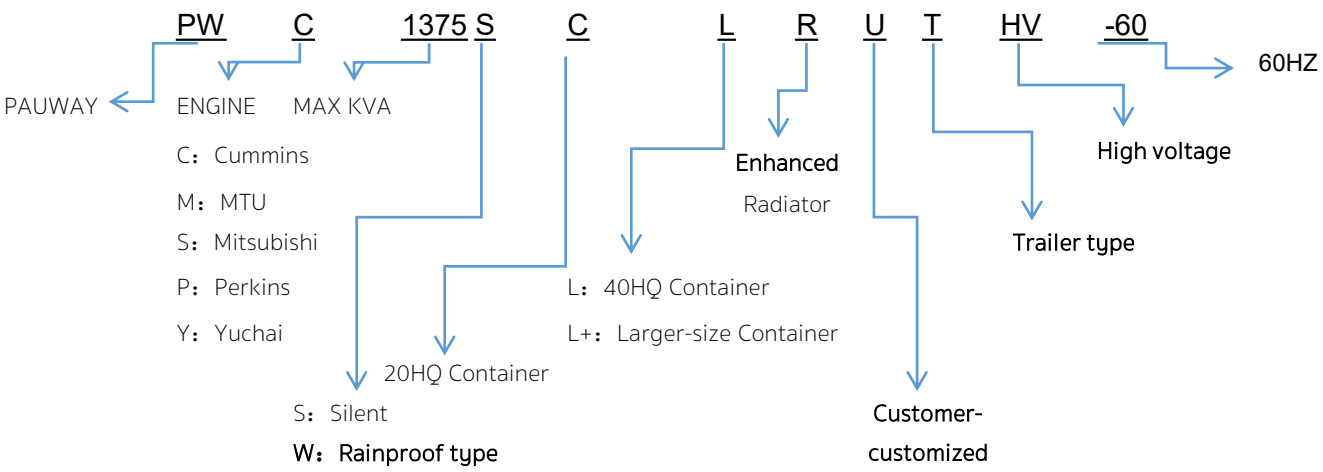
/// Rated power
- System Rating: power will vary with the change of alternator
- According to ISO 8528-5, the generator set conforms to G3
- According to ISO 8528-5, the generator set is allowed to use standby power

/// 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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