GENERATOR SET
TECHNICAL SHEET

Model: PWP1650-60

440V | 60Hz | 1800RPM



ENGINE	Perkins 4012-46TAG2A	ALTERNATOR	LEROY-SOMER LSA 50.2 L7
PRP PRIME POWER	1200kW 1500kVA	ESP STANDBY POWER	1320kW 1650kVA

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: 5050×2200×2600mm
Weight: 11500kg

Soundproof Type

Overall Dimensions: N/A
Weight: N/A

Standard 40'ft HQ container

Overall Dimensions: 12192×2438×2896mm
Weight: 17500kg

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
P – Pioneering Power Solutions
A – Advanced and Assured
U – Unparalleled Versatility

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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 PAUWAY or its authorized agents.

GENERATOR RATINGS

Voltage V	Hz	Phase	PF (COSΦ)	Standby Amps	Prime Ratings	Standby Ratings
480/277	60	3	0.8	1985	1200kW	1320kW
440/254	60	3	0.8	2165	1200kW	1320kW
416/240	60	3	0.8	2290	1200kW	1320kW
380/220	60	3	0.8	2507	1200kW	1320kW

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

4012-46TAG2A

Manufacturer / Model	Perkins-4012-46TAG2A	
Prime Power	1331kW	
Standby Power	1459kW	
Rated speed（r/min）	1800	
No.Cylinder	12	
Cylinder arrangement	V	
Stroke	4	
Air intake system	Turbocharged	
Governor type	Electronic	
Bore and stroke	160x190mm	
Displacement	45.842L	
Compression ratio	13:1	
Fuel System		
Fuel consumption @ 100% (Prime Power) Load	213g/kWh	315L/h
Fuel consumption @ 75% (Prime Power) Load	222g/kWh	246L/h
Fuel consumption @ 50% (Prime Power) Load	229g/kWh	169L/h
Exhaust System		
Exhaust gas flow（L/S）	5100	
Exhaust temperature（℃）	418	
Max back pressure（kPa）	5	
Air Intake System		
Combustion air flow（L/S）	2083	
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）	159	
Oil consumption（g/kWh）	0.7	
Cooling System		
Cooling Type	Water-cooled	
Intercooling method	Air-Air	
Cooling System	Thermostat、Water pump、Radiator、Intercooler	
Coolant capacity(L)	73 (engine only)	
Max water temperature（℃）	98	

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ALTERNATOR SPECIFICATION

Power（kVA）	1555
Power（kW）	1244
Alternator Efficiency(%)	95.2
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

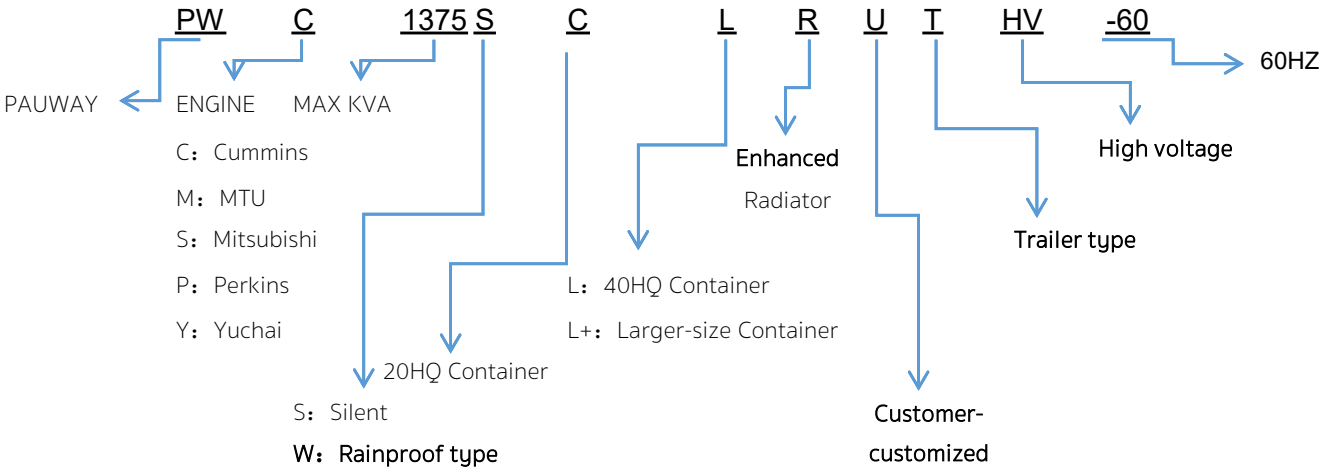
/// Rated power
- System Rating: power will vary with the change of alternator
- According to ISO 8528-5, the generator set conforms to G3
- According to ISO 8528-5, the generator set is allowed to use standby power

/// 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 integrity are
- 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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