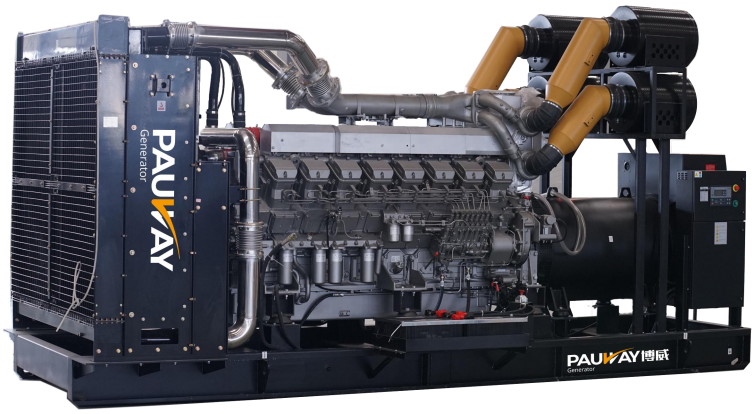
GENERATOR SET TECHNICAL SHEET

Model: PWS1800-60

440V | 60Hz | 1800RPM



ENGINE	MHI S12R-PTAA2	ALTERNATOR	LEROY-SOMER LSA 50.2 VL10
PRP PRIME POWER	1260kW 1575kVA	ESP STANDBY POWER	1450kW 1812kVA

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：5050×2210×2560mm

Weight：12000kg

Soundproof Type

Overall Dimensions：NA

Weight：NA

Standard 40'ft HQ container

Overall Dimensions：12192×2438×2896mm

Weight：23000kg

OPTIONS

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

WAY TO

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A - Advanced and Assured

U - Unparalleled Versatility

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PAUWAY

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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	2180	1260kW	1450kW
440/254	60	3	0.8	2378	1260kW	1450kW
416/240	60	3	0.8	2516	1260kW	1450kW
380/220	60	3	0.8	2754	1260kW	1450kW

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

S12R-PTAA2

Manufacturer / Model	MHI/S12R-PTAA2	
Prime Power	1387kW	
Standby Power	1596kW	
Rated speed（r/min）	1800	
No.Cylinder	12	
Cylinder arrangement	V	
Stroke	4	
Air intake system	Turbo	
Governor type	Electronic	
Bore and stroke	170×180mm	
Displacement	49.03	
Compression ratio	13.5:1	
Fuel System		
Fuel consumption @ 100% (Prime Power) Load	220g/kWh	358L/h
Fuel consumption @ 75% (Prime Power) Load	g/kWh	L/h
Fuel consumption @ 50% (Prime Power) Load	g/kWh	L/h
Exhaust System		
Exhaust gas flow（L/S）	5333	
Exhaust temperature（℃）	500	
Max back pressure（kPa）	6	
Air Intake System		
Combustion air flow（L/S）	2017	
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）	180	
Oil consumption（g/kWh）		
Cooling System		
Cooling Type	Water-cooled	
Intercooling method	Air-Air	
Cooling System	Thermostat、Water pump、Radiator、Intercooler	
Coolant capacity(L)	125（Only Engine）	
Max water temperature（℃）	98	

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ALTERNATOR SPECIFICATION

Power（kVA）	1860
Power（kW）	1488
Alternator Efficiency(%)	95.6
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
- The engine used conforms to ISO 2008:9001 and
- The generator used conforms to NEMA MG1, EN and IEC standards

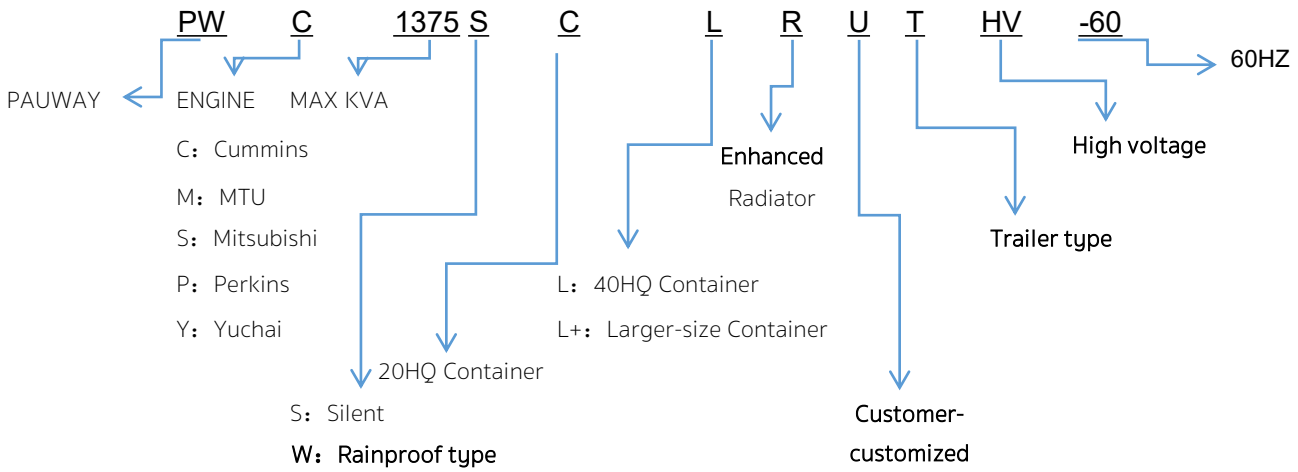
/// Rated power
- System Rating: power will vary with the change of alternator
- According to ISO 8528-5, the generator set conforms to G3
- According to ISO 8528-5, the generator set is allowed to use standby power

/// 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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