

# GENERATOR SET TECHNICAL SHEET

# PAUWAY

Model: PWY1650Y

400V | 50Hz | 1500RPM



<b>ENGINE</b>	YUCHAI YC12VTD2000-D30	<b>ALTERNATOR</b>	EVOTEC TCU428G
<b>PRP</b> PRIME POWER	1200kW 1500kVA	<b>ESP</b> STANDBY POWER	1300kW 1625kVA

Specifications are subject to change without notice.

## GENERAL FEATURES

- 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: 4550×2750×2800mm

Weight: 9450kg

Soundproof Type

Overall Dimensions: NA

Weight: NA

Standard 40'ft GP container

Overall Dimensions: 12192×2438×2896mm

Weight: 18000kg

## 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

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[www.pauway.cn](http://www.pauway.cn) / [sales@pauway.cn](mailto:sales@pauway.cn) / +86-22-86859198

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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	2132	1200kW	1300KW
415/240	50	3	0.8	2260	1200kW	1300KW
400/230	50	3	0.8	2345	1200kW	1300KW
380/220	50	3	0.8	2469	1200kW	1300KW

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

## GENERATING SET DATA

Voltage setting range	$\geq \pm 5\%$
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)	$\leq 6$
Voltage stabilization time / sudden increase (s)	$\leq 6$
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)	$\leq 5$
Frequency stabilization time / sudden increase (s)	$\leq 5$

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## ENGINE SPECIFICATION

YC12VTD2000-D30

Manufacturer / Model	YUCHAI YC12VTD2000-D30
Prime Power	1345kW
Standby Power	1480kW
Rated speed (r/min)	1500
No.Cylinder	12
Cylinder arrangement	V
Stroke	4
Air intake system	Turbo
Governor type	Electronic
Bore and stroke	152×180mm
Displacement	39.2L
Compression ratio	14.0:1

## Fuel System

Fuel consumption @ 100% (Prime Power) Load	202.5g/kWh	326.2L/h
Fuel consumption @ 75% (Prime Power) Load	195.3g/kWh	235.9L/h
Fuel consumption @ 50% (Prime Power) Load	200.5g/kWh	161.5L/h

## Exhaust System

Exhaust gas flow (L/S)	4433
Exhaust temperature (°C)	500
Max back pressure (kPa)	10

## Air Intake System

Combustion air flow (L/S)	1633
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)	215
Oil consumption (g/kWh)	

## Cooling System

Cooling Type	Water-cooled
Intercooling method	Water-Air
Cooling System	Thermostat、Water pump、Radiator、Intercooler
Coolant capacity(L)	485
Max water temperature (°C)	98

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## ALTERNATOR SPECIFICATION

Power (kVA)	1500
Power (kW)	1200
Alternator Efficiency(%)	95.9
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.

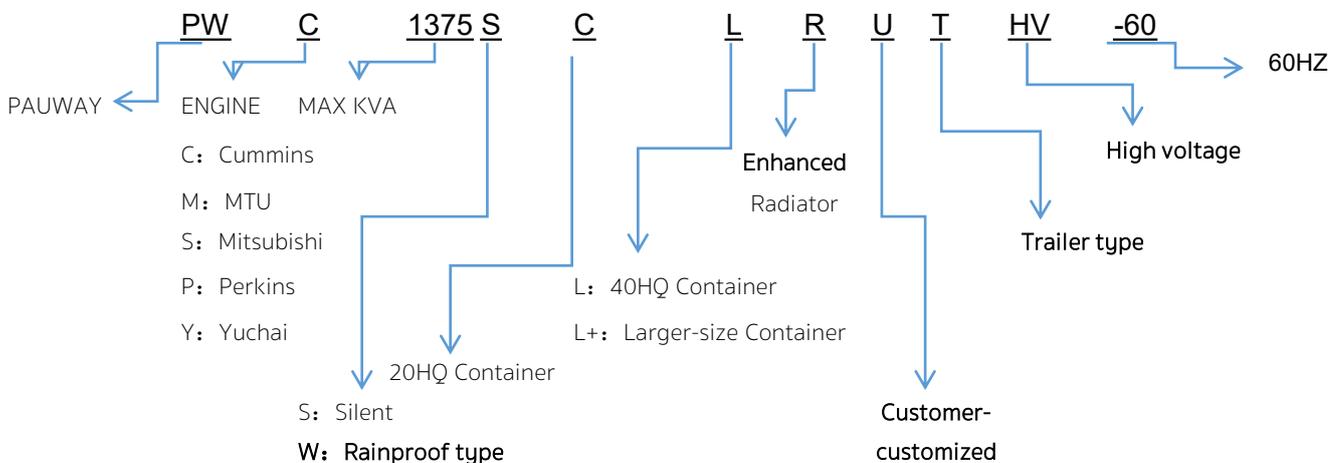
### /// Provide full set of spare parts

- 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



TIANJIN PAUWAY POWER EQUIPMENT CO.,LTD  
 WEBSITE: WWW.PAUWAY.CN  
 EMAIL: SALES@PAUWAY.CN  
 TEL: + 86-22-86859198