

GS650SY260513



**MODEL : PDG-650SY**

**INDUSTRIAL  
SERIES**

***Powercity***

*" 30 Years of Generator Experience "*

**SOUNDPROOF & WEATHERPROOF  
AC DIESEL GENERATORS**



045

ISO 9001:2008 Cert.NO.:682452



# Powercity

"30 Years of Generator Experience"

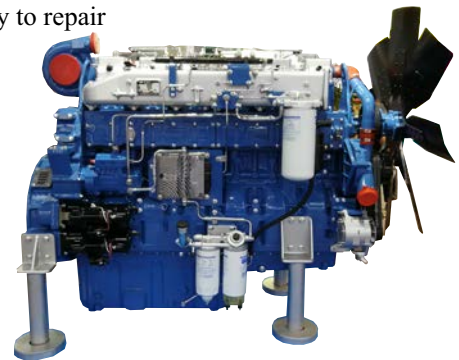
## MODEL : PDG-650SY

Powered by:  
CUMMINS ENGINE



- Compact designed soundproof and weatherproof canopy .
- All canopy parts are designed with modular principles.
- Detachable designed doors provide most accessible for maintenance and repairs.
- All metal canopy parts are factory rustproof using special powder paint coating.
- Single point lifting eye designed for easy mobilization.
- Transparent glass control panel viewing window.
- Optimized ventilation design provides better generator cooling.
- Provision for external fuel tank for extended operation through fuel intake & return valves.

- Solid crankshaft case, postposition gear housing,
- Wet-type cylinder liner, a head per cylinder, better approachability design, easy to repair
- Average efficient pressure, power per Liter, torque per liter are good
- Advanced electronic unit pump, low inertia, p-injector with small bore
- Advanced turbo charger, low oil consumption
- Valve oil-sealing ring technique and Seal technique for piston ring, low oil consumption
- Electronic speed governing pump
- 42CrMo forged steel crankshaft, high efficiency quenched bore
- Cooperated with FEV, German, overhaul interval is over 12000 hours.
- Perfect G-drive for 320-600 KW generator sets



- Over-rated, brushless, rotating exciter with solid state AVR.
- Class H winding insulations provide high temperature resistance.
- Standard degree of protection IP21.
- Self exciting and self regulating.
- Factory impregnated epoxy varnished.
- Heavy duty steel frame cast-iron cover.
- Stator grease insulation covered.
- Flywheel location cooling fan.

- The PLC Generator set controller uses micro-processing intelligent and network technique which can carry out precision measure, constant value adjustment, timing and threshold setting and etc. of multiple digital parameters.
- Carry out functions including automatic start/stop, data measure, alarms indicates service affecting faults, and compatible with most standard ATS.
- Uses LCD display, optional Chinese and English display with easy operation, reliable and durable.
- Parameters can be set in site or in monitor center & can not lose even power off.
- Easy to replace with a plug-in type socket at the back of the control module and low cost to the end user.
- Automatic shutdown on fault conditions such us high temp, low oil pressure, over & under speed (RPM), over load & low fuel stock level.
- Another set of analog gauges for engine status monitoring including un-resetable run hours gauges to prevent tampering.



## SPECIFICATIONS

MODEL	PDG-650SY		
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### • ALTERNATOR

Make & Model		POWERCITY SLG 544F	POWERCITY SLG 544E
Frequency	Hz	50	60
Output Rating (KVA/KW)	Continuous	500	550
	Prime	625	687.5
	Standby	750	750
No. of Phases		3-Phase (4 Wires)	
Rated Voltage	V	200~240/380~440V	
Power Factor		0.8 (Lagging)	
Voltage Regulation	%	Within +/- 1.5	
Excitation		Brushless, Rotating Exciter (with A.V.R.)	
Insulation		Class H	

### • ENGINE

Make & Model		YUCHAI YC6TD900-D31	YUCHAI YC6TD940-D32
Type		Vertical Inline, Water-cooled, 4-Stroke, Electronic unit pump , Turbo charged, Inter-cooled	
Output Rating	Kw/rpm	605/1500	628/1800
No. of Cylinders-Bore x Stroke	mm	6 - 152 x180	
Piston Displacement	L	19.598	
Fuel		ASTM No.2 Diesel Fuel or Equivalent	
Fuel Consumption @75% load	L/h	90	94
Lube Oil Capacity	L	52	
Coolant Capacity	L	106	
Battery Capacity	V-Ah	12V-150Ah (2pcs)	
Fuel Tank Capacity	L	600	

### • UNIT

Dimensions	Length mm	4800
	Width mm	1750
	Height mm	2450
Dry Weight	kg	5500

### • SOUND LEVEL

dB @ 7m	72	75
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(Specifications are subject to change without prior notice.)



Manufactured by:

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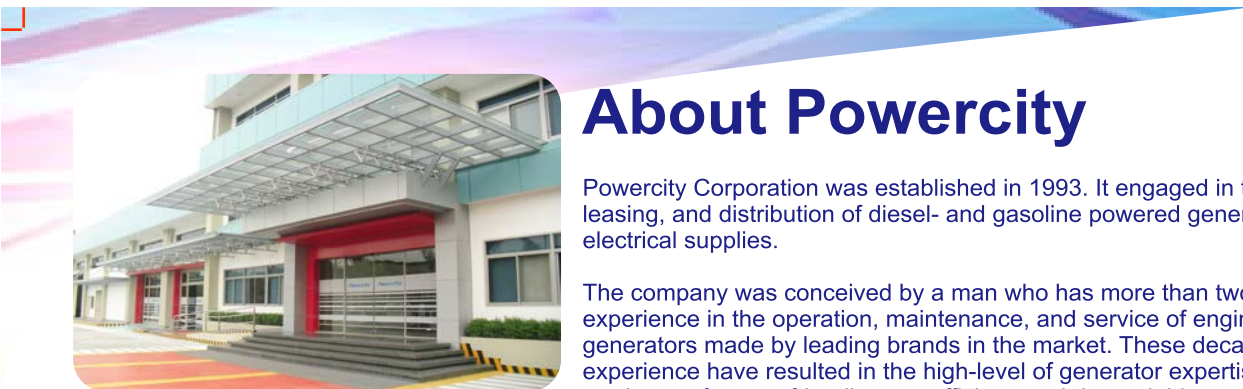
[www.powercity.ph](http://www.powercity.ph) or [www.powercity.com.cn](http://www.powercity.com.cn)

STANDBY: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings.

STANDBY:

Continuous running at variable load for unlimited periods with 10% overload available for 1 hour in any 12 hour period.

PRIME:



# About Powercity

Powercity Corporation was established in 1993. It engaged in the selling, leasing, and distribution of diesel- and gasoline powered generators as well as electrical supplies.

The company was conceived by a man who has more than two decades of experience in the operation, maintenance, and service of engine-driven power generators made by leading brands in the market. These decades of field experience have resulted in the high-level of generator expertise needed to produce safe, user-friendly, cost-efficient, and dependable generators.



It started its business growth by providing generator repair and maintenance services in cell sites of a local mobile operator Smart Communications in 1996. Because of the company's outstanding performance Powercity gained recognition from Smart Communications and also gained opportunity from its rival Globe Telecom in the year 2000.

In 2002, the company established its own diesel generator manufacturing plant in China known as Powercity Electromechanical and Equipment Co. Ltd. The latter, investing in research, development and manufacture of Powercity generators, load banks, automatic transfer switches (ATS), electrical conduits, accessories, unistrut channel, clamps and dc fan ventilation. At present, Powercity delivers its products to the Middle East, Africa, Australia, and Southeast Asia including Philippines.



As the company maintained its good business relationship and reputation with Smart and Globe Telecom, Powercity gained another opportunity in Sun Cellular in 2005 in terms of sales and after sales service of Powercity generators.

POWERCITY CORPORATION has been serving other customers for the supply, installation and maintenance of generators and relevant products for the Philippine clients such as Luzon Hydro Corporation, Alcatel Philippines, Nextel Communications, Northern Telecoms, Lucent Technologies, Hutama Skyway Project and more.

Today, POWERCITY CORPORATION diversifies into marine engines, renewable energy and telecommunication products to bring an options to its potential customers

## Worldwide presence...

### LEGEND:

