

GS500SD260513



MODEL : PDG-500SD

**INDUSTRIAL
SERIES**

Powercity

" 30 Years of Generator Experience "

**SOUNDPROOF & WEATHERPROOF
AC DIESEL GENERATORS**



045

ISO 9001:2008 Cert.NO.:682452

CE

Powercity

" 30 Years of Generator Experience "

MODEL : PDG-500SD

Powered by:
SDEC 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.

- **Coolpac Integrated Design** - Supplied with cooling package and air cleaner kit for a complete power package.
- **Single Poly Vee belt drive** for fan, alternator and water pump, with self-tensioning idler for minimum maintenance.
- **Inline-type Bosch P-Series pump** operates at high injection pressures for cleaner combustion and lower emissions.
- **Spin-on fuel filter** and full-flow lubricating oil filter.
- **Top mounted Holset HX40W turbo- charger** for increased power, fuel economy, and lower smoke and noise levels.



- 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.



Digital Control Panel

SPECIFICATIONS

MODEL		PDG-500SD	
• ALTERNATOR			
Make & Model		POWERCITY SLG-544D	POWERCITY SLG-544C
Frequency	Hz	50	60
Output Rating (KVA)	Continuous	375	400
	Prime	475	500
	Standby	515	550
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		SDEC 6ETAA12.8-G310.1	
Type		Vertical Inline, Water-cooled, 4-Stroke, Common Rail Injection, Turbo charged, Air intercooled	
Output Rating	Kw/rpm	441/1500	441/1800
No. of Cylinders-Bore x Stroke	mm	6 - 130 x 161	
Piston Displacement	L	12.8L	
Fuel		ASTM No.2 Diesel Fuel or Equivalent	
Fuel Consumption @100% load	L/h	107	105
Lube Oil Capacity	L	41L	
Coolant Capacity	L	60.6L	
Battery Capacity	V-Ah	12V-150Ah (2pcs)	
Fuel Tank Capacity	L	400	

• UNIT

Dimensions	Length mm	4400
	Width mm	1500
	Height mm	2100
Dry Weight	kg	4900

• SOUND LEVEL

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



Manufactured by:

Powercity Electromechanical & Equipment Co.,Ltd

Laicuo Industrial Zone, Xiyuan side, Jinjiang City, Fujian, China

+86-595-85301789

+86-595-85301608

Philippines Distributor:

Powercity Corporation

Km. 20, East Service Road,

South Super-Highway, Muntinlupa City, Metro Manila

+63-2-8-869-1991/+63-2-8-869-7520

+63-2-8-869-3869

contactus@powercity.ph

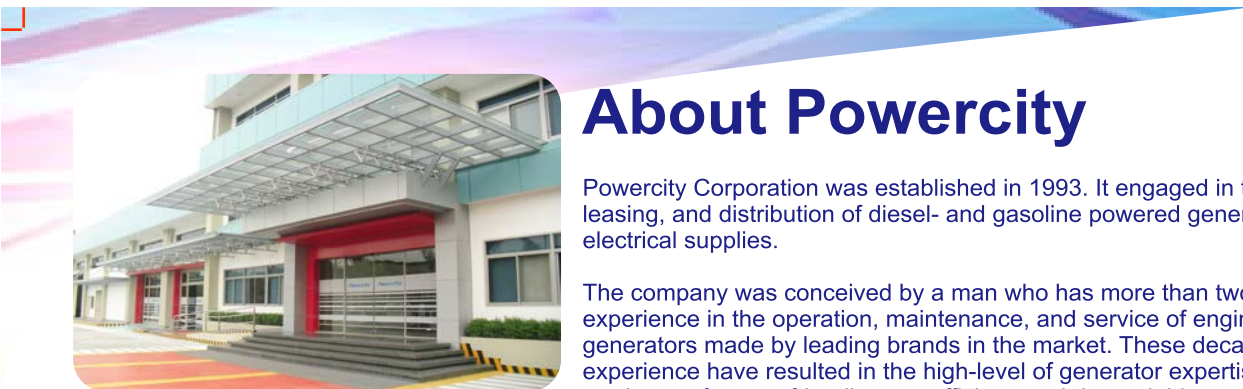
www.powercity.ph or www.powercity.com.cn

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:

