



**MODEL : PDG-450S-SDEC**

**INDUSTRIAL  
SERIES**

**Powercity**  
" 30 Years of Generator Experience "

**SOUNDPROOF & WEATHERPROOF  
AC DIESEL GENERATORS**



ISO 9001:2008 Cert.NO.:682452





- 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.

The E series engine is jointly designed by SDEC and AVL of Austria. It is a brand new engine platform developed by referring to the current international-advanced engine application technologies and made with world-class equipment and according to the SAIC MOTOR manufacturing standards. The feature of E series engine is safe, reliable and powerful. Its fuel economy is superior to that of the similar engines of the same power. The engine is applicable to medium- and high-end generator sets with prime power of 250 to 360 kW.

E series engine was jointly designed by Austria AVL. To ensure high quality products, the advanced technologies are used, such as four-valve, overhead camshaft and high strength cylinder block with bedplate, etc., and engines are produced by the automated production line with world-class brand equipment, such as MAG. Comparing with other same output engines, SDEC E series engine has lower fuel consumption, lower noise, high quality of the appearance of the noble temperament, and longer maintenance cycle.



- 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 multi-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	<b>PDG-450S-SDEC</b>
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### • ALTERNATOR

Make & Model	POWERCITY SLGK-444F		
Frequency	Hz	50	60
Output Rating (KVA)	Continuous	375	400
	Prime	400	450
	Standby	440	500
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-G32		
Type	Vertical Inline, Water-cooled, 4-Stroke, Common Rail Injection, Turbo charged, Air intercooled		
Output Rating	Kw/rpm	360/1500	400/1800
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 @75% load	L/h	78	83.4
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	4200
	Width mm	1400
	Height mm	1900
Dry Weight	kg	3100

### • 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.  
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Fujian, China

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

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:

Customer

