



**250KVA**

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

**MODEL:PDG-250SC-CA**

**SOUNDPROOF & WEATHERPROOF  
AC DIESEL GENERATORS**



**DCEC**

**ComAp**   
The heart of smart control



**CE**

# Powercity

" 30 Years of Generator Experience "

## MODEL:PDG-250SC-CA



- 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.
- **In-line-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 IP23.
- 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 as 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.



ComAp AMF25 controller

## SPECIFICATIONS

Model		<b>PDG-250SC-CA</b>
Prime Power	kVA	250
Standby Power	kVA	275
Power Factor		0,8
Rated Voltage	V	400/230 or 380/220
Speed	rpm	1500
Frequency	Hz	50
Fuel Consumption @100% load	L/h	53
Fuel Consumption @75% load	L/h	39
Fuel Consumption @50% load	L/h	27
Fuel Consumption @25% load	L/h	15

### • ALTERNATOR

Make & Model		<b>POWERCITY SLG-274K</b>
Rated Voltage	V	400/230 or 380/220
No. Of Phases - Wires		3 Phase - 4 Wires
Type		Brushless, Rotating Self-Exciter (with A.V.R)
Prime Power	KVA	250
Frequency	Hz	50
Insulation		Class H
Protection		Ip23
Voltage Regulation	%	Within +/-1

### • ENGINE

Brand		<b>CUMMINS</b>
Model		6LTAA8.9-G2
Standby Power (Speed)	kW (rpm)	240 (1500)
Type		Diesel Engine, 4-Stroke
Injection		Direct-injected
Governor		Electrical
Compression Ratio		16.6 : 1
Aspiration System		Turbo-charged
Stater System		Electric Motor With Battery
Cooling System		Watercooled With Radiator And Fan
Lube Oil Capacity	L	27.6
Coolant Capacity	L	41

### • UNIT

Dimensions (Silent Type)	Length mm	3800
	Width mm	1250
	Height mm	1800
Dry Weight	Kg	2900
Fuel Tank Capacity (Base Frame)	L	550

### • SOUND LEVEL

dB @ 7m at 75% Load		≤70
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STANDBY: Continuous running at variable load for duration of an emergency. No overload is permitted on these ratings.

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

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(Specifications are subject to change without prior notice.)

**• CONTROLLER**

Brand	<b>ComAp IntelliLite 4 AMF 25</b>
Type	Built-in PLC Logic, LCD Display
Control	<ul style="list-style-type: none"> <li>• START/ STOP</li> <li>• EMERGENCY STOP</li> <li>• AMF Application</li> <li>• MRS Application</li> <li>• Hybrid Application</li> <li>• Engine Application</li> </ul>
Measurement	<ul style="list-style-type: none"> <li>• Mains Voltage.</li> <li>• Gen Voltage.</li> <li>• Gen Current.</li> <li>• Power, Frequency.</li> <li>• Frequency.</li> <li>• Battery Voltage.</li> <li>• Temperature (WT).</li> <li>• Hour Count Accumulation.</li> </ul>
Protection	<ul style="list-style-type: none"> <li>• Over Load</li> <li>• Over/Under Speed</li> <li>• Over/Under Voltage</li> <li>• Over Current</li> <li>• Over/Under Frequency</li> <li>• High Coolant Temp</li> <li>• Battery Over/Under Voltage</li> <li>• Start Failed</li> <li>• Low Oil Pressure</li> <li>• Emergency Stop</li> </ul>
Communication	<ul style="list-style-type: none"> <li>• Remote Communication</li> <li>• USB, CAN, RS485</li> <li>• Extendable Options Including 4G/GPS, Ethernet and RS485/RS232</li> <li>• Enhanced ECU Support</li> </ul>

**• SOUNDPROOF CANOPY**

Structure	<ul style="list-style-type: none"> <li>• Canopy Is Made Of Steel Sheet With <math>\geq 2\text{mm}</math> thk And Powder Coating Or 3 Layer Epoxy.</li> <li>• Air Inlet/Outlet Positions Designed With Mesh Insect Block.</li> <li>• Soundproof With Fireproof Material <math>\geq 40\text{mm}</math> thk</li> <li>• Circuit Breaker For Over Current And Short Circuit Protection.</li> <li>• Silencer And Exhaust Pipe Covered With <math>600^{\circ}\text{C}</math> Thermal Resistant Paint</li> <li>• Include Battery And Cable</li> </ul>
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# 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

