



Powercity
"30 Years of Generator Experience"

MODEL:PDG-50SI-CA

**SOUNDPROOF & WEATHERPROOF
AC DIESEL GENERATORS**

ISUZU 
ComAp 
The heart of smart control





- 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.

- Equipped with Isuzu Engine
- Solid forged steel crankshaft, cylinder head made of alloy cast iron, small bulk, light weight, less vibration, low noise, high reliability, overhaul interval is over 10000 hours.
- P-type high pressure, low fuel consumption, fuel seal of valve added, Seal technology for piston ring and valve oil-sealing technique, low fuel consumption.
- Optional electronic speed governing pump
- Vertical inline, Four stroke, Water cooled, Turbo-charged, Intercooled.
- Direct injection fuel system.



- 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.



SPECIFICATIONS

Model		PDG-50SI-CA
Prime Power	kVA	50
Standby Power	kVA	55
Power Factor		0,8
Rated Voltage	V	400/230 or 380/220
Speed	rpm	1500
Frequency	Hz	50
Fuel Consumption @100% load	L/h	12,9
Fuel Consumption @75% load	L/h	10
Fuel Consumption @50% load	L/h	7,4
Fuel Consumption @25% load	L/h	4,9

• ALTERNATOR

Make & Model		POWERCITY KT24E
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	60
Frequency	Hz	50
Insulation		Class H
Protection		Ip23
Voltage Regulation	%	Within +/-1

• ENGINE

Brand		ISUZU
Model		JE493ZLDCE-02
Standby Power (Speed)	kW (rpm)	56 (1500)
Type		Diesel Engine, 4-Stroke
Injection		Direct-injected
Governor		Electrical
Compressipon Ratio		18.2 : 1
Aspiration System		Turbo-charged
Stater System		Electric Motor With Battery
Cooling System		Watercooled With Radiator And Fan
Lube Oil Capacity	L	5.6
Coolant Capacity	L	14.2

• UNIT

Dimensions (Silent Type)	Length mm	2200
	Width mm	880
	Height mm	1250
Dry Weight	Kg	1100
Fuel Tank Capacity (Base Frame)	L	150

• SOUND LEVEL

dB @ 7m at 75% Load	≤70
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(Specifications are subject to change without prior notice.)

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:

• CONTROLLER

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

• SOUNDPROOF CANOPY

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

Ghana

Egypt

Turkey

U.A.E

Afghanistan

Pakistan

Russia

Japan

Hongkong

Factory no.2:
- Jinjiang, China

Satellite office & Factory
- Jinjiang, China

HQ - Philippines

Fiji

Saipan

New Zealand

Indonesia

Australia

Singapore

Malaysia

Vietnam

Thailand

Angola

Brazil

Chile

Bolivia

Colombia

Panama

Dominica

USA