

# Powercity

“30 Years of Generator Experience”

**SOUNDPROOF & WEATHERPROOF  
AC DIESEL GENERATORS**

**MODEL : PDG-50SSY**



**50KVA**

GS50SSY260617

## GENSET FEATURES

### ENGINE

- Heavy duty diesel engine.
- Vertical inline, Four stroke, water cooled.
- Direct injection fuel system.
- 24 VDC starter and charge alternator.
- Replaceable fuel filter, oil filter and dry element air filter.
- Cooling radiator and fan.
- Industrial capacity exhaust silencer.
- Built in vibration isolators.
- Closed crankcase ventilation system with filter to eliminate engine room contamination.
- With Turbo-charged.

### CANOPY

- Compact designed soundproof and weather-proof 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 makes generator ventilation well.
- Large capacity designed of fuel tank

### ALTERNATOR

- 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.

### CHASSIS

- The complete generator set is mounted as a whole on a heavy duty fabricated steel base frame.
- Anti-vibration pads are fixed between the engine and alternator footings and the base frame.
- Base frame with integrated fuel tank.
- Cylindrical fuel gauge, low stock level switch and drain plug on the fuel tank.
- Provide external fuel connection fittings for bigger fuel reserve tank.
- Outside Oil drain plug designed easy access for change oil maintenance.
- Base frame are factory rustproof using special powder paint coating.

### CONTROL SYSTEM

- Powercity's designed integrated artificial intelligence controller.
- The keyless module manual or automatic start and stop the generator.
- Automatic shutdown on abnormal conditions and indicates service affecting faults.
- Compatible with most standard ATS.
- LED digital metering shows line voltage, current, frequency, operating hours and battery volts.



Digital Control Panel

## SPECIFICATIONS

|       |                  |
|-------|------------------|
| MODEL | <b>PDG-50SSY</b> |
|-------|------------------|

### • ALTERNATOR

|                     |   |                |    |
|---------------------|---|----------------|----|
| Make & Model        | <b>POWERCITY SLG-224EP1</b>               |                |    |
| Frequency           | Hz  | 50             | 60 |
| Output Rating (KVA) | Continuous                                | 55             | 60 |
|                     | Standby                                   | 45             | 55 |
| No. of Phases       | 1-Phase(2 Wires)                          |                |    |
| Rated Voltage       | V   | 200~240        |    |
| Power Factor        | 0.8 (Lagging)                             |                |    |
| Voltage Regulation  | %   | Within +/- 1.5 |    |
| Excitation          | Brushless, Rotating Exciter (with A.V.R.) |                |    |
| Insulation          | Class H                                   |                |    |

### • ENGINE

|                                |  |                 |         |
|--------------------------------|--|-----------------|---------|
| Brand                          | <b>YUCHAI</b>  |                 |         |
| Make & Model                   | YC4D90Z-D20  |                 |         |
| Type                           | Vertical Inline, Water-cooled, 4-Stroke Direct Injected, Turbo-charged |                 |         |
| Output Rating                  | Kw/rpm   | 55/1500         | 66/1800 |
| No. of Cylinders-Bore x Stroke | mm   | 4 - 108 x 115   |         |
| Piston Displacement            | L  | 4.214           |         |
| Fuel                           | ASTM No.2 Diesel Fuel or Equivalent                                    |                 |         |
| Fuel Consumption @75% load     | L/h  | 8.6             | 9.5     |
| Lube Oil Capacity              | L  | 13              |         |
| Coolant Capacity               | L  | 18.75           |         |
| Battery Capacity               | V-Ah   | 12V-80Ah (2pcs) |         |
| Fuel Tank Capacity             | L  | 120             |         |

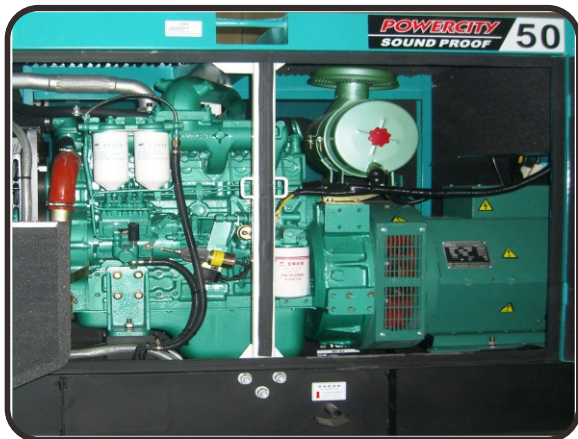
### • UNIT

|            |           |      |
|------------|-----------|------|
| Dimensions | Length mm | 2270 |
|            | Width mm  | 940  |
|            | Height mm | 1280 |
| Dry Weight | kg        | 1270 |

### • SOUND LEVEL

|         |    |    |
|---------|----|----|
| dB @ 7m | 68 | 70 |
|---------|----|----|

(Specifications are subject to change without prior notice.)



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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.