

Powercity

“30 Years of Generator Experience”

**SOUNDPROOF & WEATHERPROOF
AC DIESEL GENERATORS**

MODEL : PDG-50SY



50KVA

GS50SY260617

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	PDG-50SY
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• ALTERNATOR

Make & Model	POWERCITY SLG-224D		
Frequency	Hz	50	60
Output Rating (KVA)	Continuous	42	50
	Standby	45	55
No. of Phases	3-Phase (4 wires)		
Rated Voltage	V	200~240/380~440	
Power Factor	0.8 (Lagging)		
Voltage Regulation	%	Within +/- 1.5	
Excitation	Brushless, Rotating Exciter (with A.V.R.)		
Insulation	Class H		

• ENGINE

Brand	YUCHAI		
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	

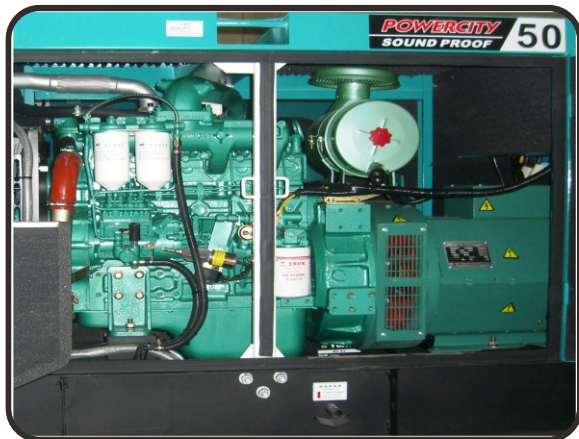
• UNIT

Dimensions	Length mm	2250
	Width mm	934
	Height mm	1180
Dry Weight	kg	1300

• SOUND LEVEL

dB @ 7m	68	70
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(Specifications are subject to change without prior notice.)



Manufactured by:

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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.