

Powercity GENERATORS

Model: PDG100

100 KVA

Available in Single Phase and Three Phase



Powercity generators are designed in conformance with European Standards certified by independent certifying agency the Materials Industrial Research and Technology Center (MIRTEC) with certificate number MC/TH-C-269/08. The principles in design, safety, rating and performance are in accordance with European Standards EN 12601:2001, EN 60204-1:2006, EN 60034-1:2004, EN ISO 12100-1:2003 and EN ISO 12100-2:2003. Generators are designed and built to provide electrical power for stand-by or continuous use. Comes with 2 years or 2,000 run hours limited warranty whichever comes first.

Features:

- MANUAL or AUTOMATIC starting and stopping capability.
- Digital controller.
- Direct injection diesel engine for fuel efficiency.
- Brushless rotating field generator with class H insulation.
- NEMA 3R enclosure suitable for outdoor use.
- Integral vibration isolators.
- Silent type generator.

Specifications

Model	PDG100		
Alternator			
Make & Model	Powercity SLG-274D (Three Phase) Powercity SLG-274D1 (Single Phase)		
Frequency	Hz	50	60
Output Rating (KVA)	Prime	90	100
	Standby	99	110
Phase	1-Phase (2 Wires) or 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 Automatic Voltage Regulator (AVR)	
Insulation		Class H	
Engine			
Make & Model		Yuchai YC6B145Z-D20	
Type		Vertical inline; water cooled; 4 stroke; direct injected; turbocharged	
Output Rating	Kw/rpm	90/1500	107/1800
No. of cylinders-Bore X Stroke	mm	6 – 108 X 125	
Piston Displacement	L	6.871	
Fuel		ASTM No. 2 Diesel	
Fuel Consumption @ 75% Load	L/h	14	15.5
Lube Oil Capacity	L	17	
Coolant Capacity	L	37.5	
Battery Capacity	V-Ah	12V-100Ah (2 pcs)	
Fuel Tank Capacity	L	140	
Unit			
Dimensions	Length mm	2810	
	Width mm	1000	
	Height mm	1400	
Dry Weight	Kg	1800	
Sound Level			
dB @ 7 m		66	70

Note: Due to continuous product improvement, the generator set manufacturer reserves the right to change the design or specifications without notice and without any obligation or liability whatsoever.

power in accordance with ISO 3046-1, BS 5514, AS 2789, and DIN 6271.

GENERAL GUIDELINES FOR DERATION:

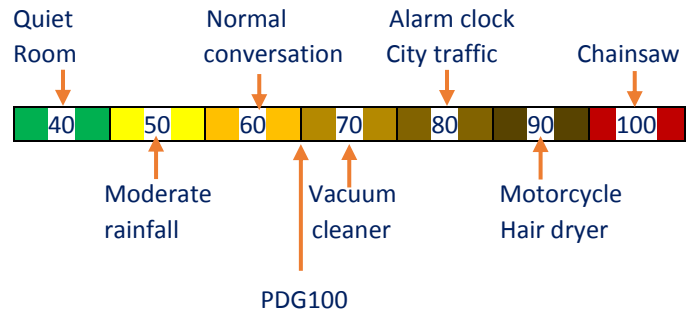
Altitude: Derate 0.5% per 100 meter (328 ft.) elevation above 1000 meter (3279 ft.).

Temperature: Derate 1.0% per 10°C (18°F) temperature above 40°C (104°F).

FUEL: Use clean diesel fuel only. Diesel fuel quality should meet the specifications of ASTM D975 and the Worldwide Fuel Charter.

SOUND LEVEL: Sound level is measured in free field environment (acoustic test chamber) where sound may propagate free from any form of obstruction.

dB Range:



Quality Assurance:



ISO 9001:2008

Certificate No. U13Q2GZ682452F1M

Manufactured by:

Powercity Electromechanical & Equipment Co Ltd
Fujian, China

Distributed in the Philippines by:

Powercity Corporation
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Metro Manila, Philippines
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Email: contactus@powercity.ph

Made in China

Engine:

YC6B145Z-D20 – 6 cylinder Direct Injection Diesel; Turbo

90kW@1500 rpm / 107kW@1800 rpm



Standards:

EN 12601:2001 – Reciprocating internal combustion engine driven generating sets – Safety.

EN 60204-1:2006 – Safety of machinery; electrical equipment of machines – General requirements.

EN 60034-1:2004 – Rotating electrical machines – Rating and performance.

EN ISO 12100-1:2003 – Safety of machinery; basic concepts and general principles for design Part 1.

EN ISO 12100-2:2003 – Safety of machinery; basic concepts and general principles for design Part 2.

Applicable EGSA* Standards.

*- Electrical Generating Systems Association

Application Notes:

STANDBY RATING: Standby ratings apply to installations served by a reliable utility source. This rating is applicable to varying loads for the duration of a power outage. There is no overload capability for this rating. Ratings are in accordance with ISO 3046-1, BS 5514, AS 2789 and DIN 6271.

PRIME POWER RATING: Prime power ratings apply to installations where utility power is unavailable or unreliable. At varying load the number of generator set operating hours is unlimited. A 10% overload capacity is available for one hour in twelve hours. Ratings in accordance with ISO 8528-1, overload