



# **Guangdong Westinpower Co., Ltd**

RB150XL

Gas Generator Set Data Sheet



## RB-XL Series GAS Generator

Type: RB150XL

### Main Data

Rated Power:	150kVA/120kW
Speed/Frequency:	1500 rpm /50Hz
Voltage classes:	400/230V
Power factor:	0.8
Rated current:	216.5A
Starting mode:	24V/DC electrical starting
Steady voltage regulation	$\leq \pm 1\%$
Transient voltage regulation:	$-15\% \leq \delta u + 20\%$
Voltage regulation range	$\pm 5\%$
Voltage wave motion rate	$\leq \pm 1\%$
Voltage recovery time	$\leq 4s$
Steady frequency regulation	$\leq \pm 0.5\%$
Transient frequency regulation	$-15\% \leq \delta f + 10\%$
Frequency fluctuation rate	$\leq \pm 0.5\%$
Frequency steady time	$\leq 3s$



### Weight and Dimensions

	Dimensions L×W×H(mm)	Weight (Kg)
Open Type:		
Silent Type:	3686*1256*2068	

### Operating environment

Environment temperature	$\leq 40^{\circ}\text{C}$
Altitude	$\leq 1000\text{m}$
Relative humidity	$\leq 90\%$

Note:1. When the environment temperature is higher than  $40^{\circ}\text{C}$  or the altitude is more than 1000 meters, power will fall, need to correct.

2. Humidity is too large, need to make corresponding

### Introduction

- Fuel requirements: Technical data is based on a calorific fuel value of 10 kWh/Nm<sup>3</sup> for natural gas;
- Manufacturing standards: ISO8528-5、GB/T2820.5-2009、GB/T22343-2008;
- Every gas gensets have been pass the test under the load of 0%、25%、50%、75%、100% and the response ability of static, dynamic test, all the protection device and control system are pass strict inspection before they leave factory.

## Westinpower Gas Engine

Type: XD8.9G-MG160

### Main Data

Manufacturer: Westinpower  
Air intake way: Turbocharged - Intercooled  
Cooling way: Closed cooling cycle  
Cylinder /Arrangement: 6/L  
Displacement: 8.9L  
Bore: 114mm  
Stroke: 145mm  
Compression ratio: 10.5:1  
Rated RPM @50Hz: 1500rpm  
Max. rated power @50Hz: 160KW  
Governor: Electronic  
Ignition sequence: 1-5-3-6-2-4  
Weight: 650kg

### Lubrication system

Oil temperature :121°C  
Total oil capacity: 27.6L  
Oil pressure: 276 ~ 414Kpa

### Gas system

Gas type: Bio gas  
Gas supply pressure:  $\geq 15\text{kPa}$   
main composition:  $\geq 55\%$   
Gas consumption:  $\leq 0.56\text{Nm}^3/\text{h}$

### Air intake system

Intake flow rate:  $620\text{Nm}^3/\text{h}$

### Exhaust system

Exhaust valve clearance: 0.61mm  
Exhaust temperature:  $\leq 580^\circ\text{C}$   
Max back pressure: 10.1kPa

### Cooling system

Radiator capacity: 11.1L (engine only)  
Thermostat: 82-93°C  
Outlet water temperature: 93°C  
Max coolant water temperature: 104°C

## Westinpower Gas Engine Features

- Mixer: Best air-fuel ratio adjustment, burn more fully.
- High energy and single cylinder ignition technology、Integrated prevent tempering device、 The technology of supercharge and inter-cooling and lean-burn
- Low consumption ,low noise Energy conservation and environment protection.

Note: We will separately provided if you need the more parameter.

## Leroy Somer Generator

Type: LSA44.3 L12

### Main Data

Manufacturer: Leroy Somer  
 Rated power: 150kVA/120kW  
 Voltage classes: 400/230V  
 Phase: 3  
 Power factor: 0.8  
 Excitation way: AREP  
 AVR Type: D550  
 Rated ambient temperature: 40°C  
 Packing crate size: 123X67X103 cm  
 Weight: 492kg

### Performance data

Bearing number: 1  
 Poles: 4  
 Insulation class: H  
 Temperature rise: F  
 Protection: IP23  
 Altitude: ≤1000m  
 Overspeed: 2250rpm  
 Air flow: 0.25m³/s  
 THF: <2% (no load)  
 TIF: <50

## Control Panel

Type: DSE8610



### Controller introduction

Continuous voltage rating: 5V to 35V  
 Maximum operating current: 530mA at 12V  
 Maximum standby current: 320mA at 12V  
 Charge fail range: 0V to 35V  
 Panel cut-out: 220 × 160mm  
 Dimension: 245 × 184 × 51mm  
 Maximum panel thickness: 8mm  
 Analogue inputs A to D  
 Configurable as:  
 Negative switching digital input  
 0V to 10V sensor  
 4mA to 20mA sensor  
 0 Ω to 480 Ω sensor

## Standard configuration accessories

### Fittings

- shock absorber
- air filter ※
- oil filter ※
- battery、 battery cable
- outlet cabinet
- Industrial muffler
- bellows
- exhaust flange

■ gas filter ※

### Data

- test report
- electrical schematic diagram
- instruction manual
- certification
- warranty card

Note: With ※ Is mounted on the set (the gas used for gas cooker,not equip wiht gas filter)

## Optional accessories

- ☐ residential muffler
- ☐ exhaust pipe
- ☐ power cable
- ☒ battery charger
- ☒ maintenance-free storage battery
- ☐ space heater
- ☐ jacket heater
- ☐ oil heater
- ☐ ATS
- ☐ parallel operation
- ☐ grid Connection

- ☐ silent type generator set
- ☐ silent container genset

### Spare

- ☐ gas filter
- ☐ air filter
- ☐ oil filter
- ☐ sparking plug

### Other

- ☐ \_\_\_\_\_
- ☐ \_\_\_\_\_
- ☐ \_\_\_\_\_

Westinpower reserves the right to modify any of specification indicated on this catalog without prior notice.  
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