

# **B900SE3**

## Diesel Generator Set, Powered by Baudouin



## Main technical data

Rated voltage	
Prime power	kVA/kW
Standby power	kVA/kW
Ampere	Α
Frequency	Hz
Rotate speed	RPM
Phase	Р
Power factor	cosφ

Structure	
Model	
Tank capacity	L
Dimensions	mm
Dry weight	kg
Noise Level	dBA@7m

Load	
Fuel consumption	L/h

380	400	415	440		
900 / 720	900 / 720	900 / 720	900 / 720		
990 / 800	990 / 800	990 / 800	990 / 800		
1367.4	1299.1	1299.1	1181.0		
	50				
1500					
3					
		0.8			

Soundproof type				
B900SE3				
1200				
	4968 ×1869 ×25	81		
8100				
78				
50%	75%	100%	110%	
94	141	188	206.8	
	50%	B900SE3 1200 4968 ×1869 ×25 8100 78	B900SE3 1200 4968 ×1869 ×2581 8100 78	



## **Main Specification**

#### Advantage

- Low fuel consumption
- Optimized system
- High reliability
- High availability
- Long maintenance cycle

#### Design standards

- Conformite Europeene CE)
- ISO8528-5:2005
- GB/T2820.5-2009

#### Environmental operating conditions

- Installation place: indoor (well ventilated)
- Ambient temperature: -25°C to 50°C (the coolant heater is needed when the temperature is below 5°C)
- Humidity: Less than 90%
- Altitude: Below one thousand (1000) meters.

#### Performance guarantee

- Product design, manufacturing and performance integrity verified by standards
- Generator set passed transient response test according to ISO8528-5
- Both engine and alternator are prototype and factory tested

#### Service support

- Provide global product service support

#### Factory inspection

- Protection devices working test
- Starting ability in normal temperature
- 50% rated power load moment capability
- Voltage deviation and speed variation: 0, 25%, 50%, 75%, 100%, 110%









## **Power System**

#### **Engine**

Manufacturer	Baudouin	Intake system	Turbocharged
Model	8M33G4D3/5	Intake resistance: kPa	<u>≦</u> 6.5
Cylinders and arrangement	8L	Back power: kPa	<b>≦</b> 7.5
Bore: mm	150	Oil capacity: L	105
Stroke: mm	185	Coolant capacity: L	165
Displacement: L	26.14	Battery voltage: V	24
Compression ratio	15	Dimensions: mm	1983×1871×1861
Rotate speed: RPM	1500	Dry weight: kg	3100
Prime power: kWm	815		
Standby power: kWm	895		
Rotate speed governor	ECU		
Type of injection	Direct		

#### **Alternator**

Manufacturer	Leroy-somer	Insulation class	Н
Model	LSA49.3L9	Temperature rising class	Н
Exciter	AREP	Drip proof	IP23
AVR model	R450	Overspeed: RPM	2250
Windings	100% copper	Voltage regulation	±0.5%
Winding pitch	2/3	Telephone harmonic factor THF	<2%
Number of poles	4	Telephone interference factor TIF	<50
Terminals	12		

## **Control System**

Manufacturer POWERLINK Model PLC500

#### **General functions**

Automatic start/stop controlManual/remote start control

Automatically start when mains is abnormal (AMF)

- Real time monitoring and display of multiple parameters
- RS232, RS485 port and ethernet can be used
- CAN and Modbus communication
- Provide complete control solutions

#### Monitoring and protection

Oil pressure Overload
Water temperature Overcurrent
Rotate speed Overvoltage
Start Undervoltage
Running time Overfrequency
Battery voltage Underfrequency

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## **Product Configuration**

## **Standard Configuration**

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Engine	Alternator	Control switchgear	Canopy (soundproof)	Base frame
Electrical start motor	Insulation class H	PLC control system	Electrogalvanized sheet	Steel base frame
Battery system	Temp. rising class H	GCB, 3P	Anti-corrosion coating	Engine bracket
Speed control system	Drip proof class IP23	Breaker cabinet	Access door	Alternator bracket
Turbocharger	AVR	Communi. connector	Stainless steel hinge	Radiator bracket
Lockable isolator switch		ATS connector	Sound absorbing cotton	Vibration isolators
Battery charger		Mains floating charger		
Fuel system	Lubrication system	Cooling system	Intake/exhaust system	Documents
Base frame fuel tank Fuel level sensor Flexible pipe Fuel filter Fuel inlet	Oil pressure sensor Oil temp. sensor Oil filter Manual drain pump Oil drain ball valve	50°C radiator Coolant level sensor Jacket water pipe Intercooling pipe	Air filter Muffler Exhaust bellows Exhaust pipe and flange High temperature protective sleeve	Installation and operation manual Test report Wiring diagram Warranty manual Engine manual Standard package

#### **Optional Configuration**

Engine	Alternator	Control system	Fuel system	Lubrication system
Jacket water preheater	PMG	GCB, 4P	Fuel-water separator	Electric drain pump
Oil preheater	Anti-condensation heater	ATS cabinet Paralleling control	Fuel three-way valve Daily fuel tank	
	Treatments against humidity & corrosion	-		

#### **Power Class Definition**

- Prime Power (PRP): the genset runs continuously with variable load, the number of operating hours is not limited, and
   1h overload 10% operation is allowed per 12h, and the average load factor is less than 80% per 24h.
- Standby Power (ESP): operating time does not exceed 500h per year, continuous operating time does not exceed 300h, the average load factor is less than 80% per 24h. Overload operation is not allowed.

#### **Product Statement**

- The data of specifications is based on the following standard environmental conditions test
  - Ambient temperature 25°C
  - Altitude 100m
  - Relative temperature 30%
- Dimensions, weight and other parameters are for reference only, please refer to the final design drawing.



Data is subject to change without prior notice as new products are always developed.

Please contact POWERLINK or local agent with any doubts or for more information.