

B100SE3

Diesel Generator Set, Powered by Baudouin



Main technical data

Rated voltage		380	400	415	440	
Prime power	kVA/kW	100 / 80	100 / 80	100 / 80	100	/ 80
Standby power	kVA/kW	113 / 90	113 / 90	113 / 90	113	/ 90
Ampere	Α	152	144	139	131	
Frequency	Hz		50			
Rotate speed	RPM		1500			
Phase	Р		3			
Power factor	cosφ	0.8				
Structure		Soundproof type				
Model		B100SE3				
Tank capacity	L	540				
Dimensions	mm	2888 x 1171 x 1900				
Dry weight	kg	1979				
Noise Level	dBA@7m	69				
Load		25%	50%	75%	100%	110
Fuel consumption	L/h	6.0	11.0	16.0	21.3	24.



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
Model	4M10G6D3/5
Cylinders and arrangement	4L
Bore: mm	105
Stroke: mm	118
Displacement: L	4.088
Compression ratio	17.5
Rotate speed: RPM	1500
Prime power: kWm	96
Standby power: kWm	105
Rotate speed governor	ECU
Type of injection	Direct

Intake system	Turbocharged
Intake resistance: kPa	≦6
Back power: kPa	≦5
Oil capacity: L	14
Coolant capacity: L	9.4
Battery voltage: V	24
Dimensions: mm	892×683×873
Dry weight: kg	400

Insulation class	Н
Temperature rising class	Н
Drip proof	IP23
Overspeed: RPM	2250
Voltage regulation	±0.5%
Telephone harmonic factor THF	<2%
Telephone interference factor TIF	<50

Alternator Manufacturer

Manufacturer	PowerLink
Model	PL3A
Exciter	PMG
AVR model	MX321
Windings	100% copper
Winding pitch	2/3
Number of poles	4
Terminals	12

Control System

Manufacturer	POWERLINK
Model	PLC920

General functions

- Automatic start/stop control
- Manual/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



Product Configuration

Standard Configuration

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	Oil pressure sensor	50°C radiator	Air filter	Installation and operation manual
Fuel level sensor	Oil temp. sensor	Coolant level sensor Jacket water pipe	Muffler	Test report
Flexible pipe	Oil filter	Intercooling pipe	Exhaust bellows	Wiring diagram
Fuel filter	Manual drain pump		Exhaust pipe and flange	0 0
Fuel inlet	Oil drain ball valve			Warranty manual
			High temperature	Engine manual
			protective sleeve	Standard package
				Clandara paolage

Optional Configuration

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

A2.0/202306