

# **B30SE3**

## Diesel Generator Set, Powered by Baudouin



## Main technical data

Rated voltage		380	400	415		440
Prime power	kVA/kW	30 / 24	30 / 24	30 / 24	4	30 / 24
Standby power	kVA/kW	38 / 30	38 / 30	38 / 3	0	38 / 30
Ampere	Α	46	43	42		39
Frequency	Hz		50			
Rotate speed	RPM		1500			
Phase	Р		3			
Power factor	cosφ		0.8			
Structure			S	Soundproof type	)	
Model			B30SE3			
Tank capacity	L		165			
Dimensions	mm		2338 x 1080 x 1551			
Dry weight	kg		1282			
Noise Level	dBA@7m		68			
Load			50%	75%	100%	
Fuel consumption	L/h		3.7	5.1	6.8	



## **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 Model	Baudouin 4M08G8D3/5
Cylinders and arrangement	4L
Bore: mm	98
Stroke: mm	105
Displacement: L	3.2
Compression ratio	17.2
Rotate speed: RPM	1500
Prime power: kWm	33
Standby power: kWm	36
Rotate speed governor	ECU
Type of injection	Direct

- A I	ternator	
A	ternator	

Manufacturer	PowerLink
Model	PL1G
Exciter	SELF EXCITED
AVR model	SX460
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

Intake system	Natural
Intake resistance: kPa	≦6.2
Back power: kPa	≦11
Oil capacity: L	9
Coolant capacity: L	5
Battery voltage: V	24
Dimensions: mm	896×644×878
Dry weight: kg	300

Insulation class	Н
Temperature rising class	Н
Drip proof	IP23
Overspeed: RPM	2250
Voltage regulation	±1.0%
Telephone harmonic factor THF	<2%
Telephone interference factor TIF	<50

## Monitoring and protection

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



## **Product Configuration**

#### Standard Configuration

EngineAlternatorControl switchgearCanopy (soundproof)Base frElectrical start motorInsulation class HPLC control systemElectrogalvanized sheetSteel b	frame base frame ne bracket
Electrical start motor Insulation class H PLC control system Electrogalvanized sheet Steel b	
	ne bracket
Battery system Temp. rising class H GCB, 3P Anti-corrosion coating Engine	
Speed control system Drip proof class IP23 Breaker cabinet Access door Alterna	nator bracket
Lockable isolator switch AVR Communi. connector Stainless steel hinge Radiate	ator bracket
Battery charger ATS connector Sound absorbing cotton Vibration	tion isolators
Mains floating charger	
Fuel system Lubrication system Cooling system Intake/exhaust system Docum	ments
Dase lighte fuel tally OII pressure sensor of Chaulator All filter	llation and ation manual
Fuel level sensor Oil temp, sensor Coolant level sensor Muffler	
Flexible pipe Oil filter Jacket water pipe Exhaust bellows	•
Fuel filter Manual drain pump Intercooling pipe Exhaust belows Wiring Exhaust pipe and flange	g diagram
Fuel inlet Oil drain ball valve Warrar	anty manual
Elinh temperature	ne manual
protective sleeve	
Standa	dard package

#### **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.

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