

B38SE3

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
Fuel consumption	L/h

380	400	415	440		
38 / 30	38 / 30	38 / 30	38 / 30		
42 / 33	42 / 33	42 / 33	42 / 33		
58	55	53	50		
50					
1500					
3					
0.8					

Soundproof type					



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	4M08G10D3/5	Intake resistance: kPa	≦6.2
Cylinders and arrangement	4L	Back power: kPa	≦11
Bore: mm	98	Oil capacity: L	9
Stroke: mm	105	Coolant capacity: L	5
Displacement: L	3.2	Battery voltage: V	24
Compression ratio	18	Dimensions: mm	896×688×863
Rotate speed: RPM	1500	Dry weight: kg	300
Prime power: kWm	36.8		
Standby power: kWm	44		
Rotate speed governor	ECU		
Type of injection	Direct		

Alternator

Manufacturer	PowerLink	Insulation class	Н
Model	PL1K	Temperature rising class	Н
Exciter	SELF EXCITED	Drip proof	IP23
AVR model	SX460	Overspeed: RPM	2250
Windings	100% copper	Voltage regulation	±1.5%
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 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	ı	ATS connector	Sound absorbing cotton	Vibration isolators
Battery charger		Mains floating charger		
Fuel system Base frame fuel tank Fuel level sensor Flexible pipe Fuel filter Fuel inlet	Cil pressure sensor Oil temp. sensor Oil filter Manual drain pump Oil drain ball valve	Cooling system 50°C radiator Coolant level sensor Jacket water pipe Intercooling pipe	Intake/exhaust system Air filter Muffler Exhaust bellows Exhaust pipe and flange High temperature protective sleeve	Documents Installation and operation manual Test report Wiring diagram Warranty manual Engine manual Standard 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.