

Generator set
Sound-proof type
B500SE3-AU

SPECIFICATIONS



50 Hz @ 1500rpm,3-phase/5-wiring



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- ISO8528-5:2005
- AS 3000-2018
- AS 3010-2017

Environmental Operating Conditions

- Installation place: Outdoors or indoors (well ventilated).
- Ambient temperature: -25°C to 45°C. The coolant heater is needed when the temperature is below 5°C
- · Humidity: Less than 90%.
- Altitude: Below one thousand (1000) meters above sea level.

Factory Inspection

- Inspection items.
- · 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% Load.

Painting Process

- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

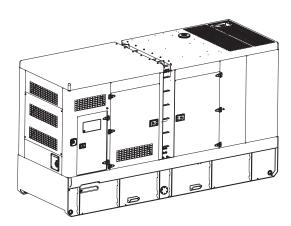
2 General Features

- Baudouin engine 6M21G8D3/5
- Close coupled to Leroy Somer alternator LSA47.3M7
- Microprocessor control module PLC-500
- ABB main circuit breaker: 800A, 4P
- Rotate speed governor: ECU
- Excitation System: SHUNT
- A.V.R.Model: R250
- · Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Remote run connector
- 2x12V sealed for life maintenance free battery

- · Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- · Oil pump on the engine
- · Non-returning valve for fuel inlet hose of the engine
- · Steel base frame with forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 13 hours running
- · Drain points for fuel tank
- · Breather valve for fuel tank
- Operator's Manual / Specifications

3 Equipment Specification

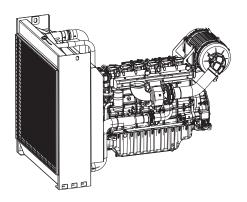
General technical data



Model	B500SE3-AU
Structure type	R
Tank capacity	1350L
Dry weight	5052kg
Noise level @7m	75.0dBA
Dimensions L×W×H	4520x1635x2536mm
Standby Power	550kVA/440kW
Prime Power	500kVA/400kW

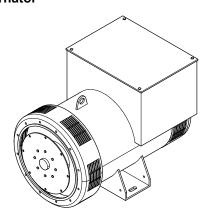
Voltage	3	80V	400V	415	415V		440V	
Ampere	75	9.7A	721.7A	695.	695.6A		656.1A	
Genset Fuel Consumption								
Frequency/l	oad	25%	50%	75%	100	100% 1		
50Hz (L/h	1)	29.2	61.6	80.5	99.	2	108	

Diesel Engine



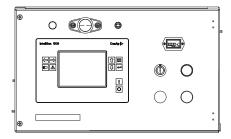
Engine Manufacturer/Brand	IBaudouin
Engine Model	6M21G8D3/5
Dimensions L×W×H	2032x1232x1490mm
Dry Weigh (approx.)	1190kg
Number of Cylinders	6
Bore	127mm
Stroke	165mm
Displacement	12.54L
Compression Ratio	15.2
Type of Injection	High Pressure Common Rail
Intake System	Turbocharged and aftercooled
Intake Resistance	≦7.0kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel	BS2869 class A2 or BS EN590
Type of Oil	API CH4 15W/40
Oil Capacity	38L
Type of Coolant	Glycol Mixture
Coolant capacity	62L
Back Pressure	≦ 12kPa
Standby Power	490kW
Prime Power	450kW
Fuel Consumption(100%loa	ad)99.2L/h

Alternator



Leroy Somer
LSA47.3M7
Brushless
Cast alloy aluminum
100% copper
Н
2/3
6
IP23
≤1000m
2250rpm
. 1m³/s(50Hz),1.2m³/s(60Hz)
±0.5%
no load < 4 % - on load < 4%
THF<2%;TIF<50

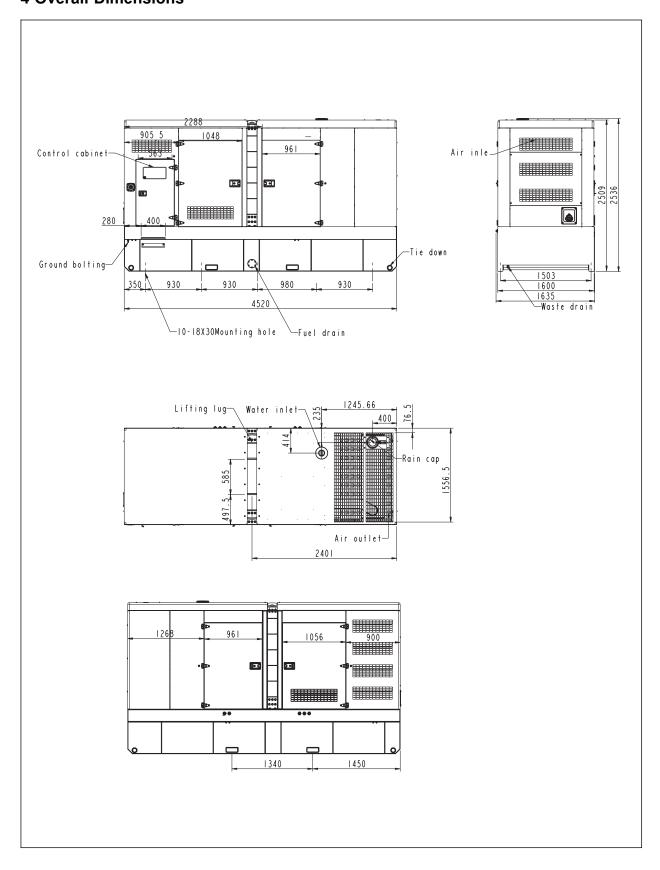
PLC-500 Control System



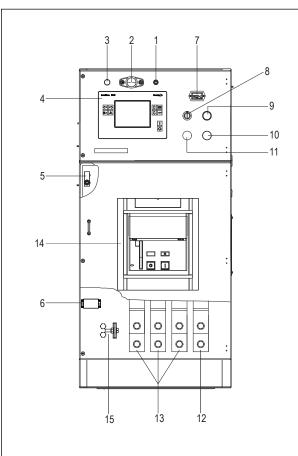
PLC-500 is a microprocessor based control unit containing all necessary functions for protection of the genset and the breaker control. Furthermore, it contains all necessary three-phase measuring circuits and presents all values and alarms on the LCD display. The module has the function of load sharing which enables the module to share the active load (kW) equally when operating in parallel with other gensets. The load sharing is performed so each genset takes a portion of the load that is calculated in percent according to the nominal power.

- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and remote work mode selectable
- RS232 & RS485 can be used at the same time
- Real time clock for time and date display, overall runtime display, 250 log entries

4 Overall Dimensions



5 Control System



Ref.	Description
1	Control cabinet lamp switch
2	Charge indicator
3	Control panel lamp
4	Control module
5	Limit switch
6	Mains input/ remote/AMF communication connector
7	Timer
8	Key switch
9	Genset close indicator
10	Genset open indicator
11	Alarm reset button
12	Neutral wire terminal
13	Live wire terminals
14	Main circuit breaker
15	Ground wire terminal

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