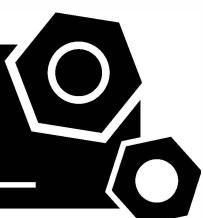


Generator set
Sound-proof type
B100S-AU

SPECIFICATIONS



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

- 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 forklift slots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 25 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operator's Manual / Specifications

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

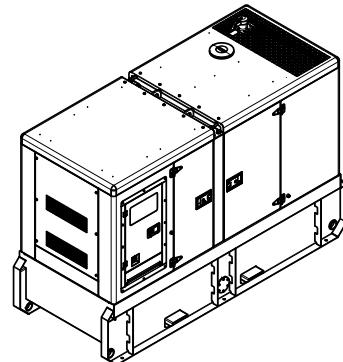
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Baudouin engine 4M10G110/5
- Close coupled to Leroy Somer alternator LSA44.3S5
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 160A, 4P
- Rotate speed governor: EFC
- Excitation System: Self Excited, SHUNT
- A.V.R. Model: R250
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Remote run connector
- 1x12V/120AH sealed for life maintenance free battery

3 Equipment Specification

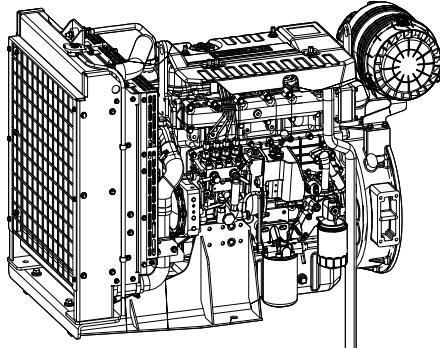
General technical data



Model.....	B100S-AU
Structure type	R
Tank capacity.....	530L
Dry weight.....	1979kg
Noise level @7m	70.1dBA
Dimensions L×W×H.....	2888×1171×1900mm
Standby Power	110kVA/88kW
Prime Power	100kVA/80kW

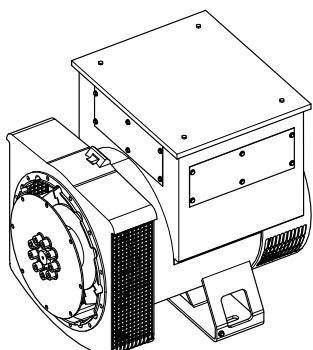
Voltage	380V	400V	415V		
Ampere	152A	144A	139A		
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	6.0	11.0	16.0	21.3	24.4

Diesel Engine



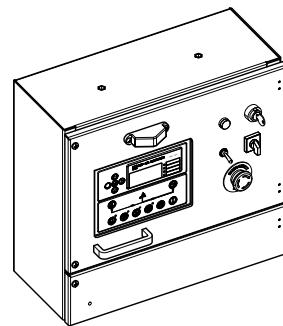
Engine Manufacturer/Brand.....	Baudouin
Engine Model.....	4M10G110/5
Dimensions L×W×H.....	1330×741×995mm
Dry Weigh (approx.)	525kg
Number of Cylinders.....	4
Bore	105mm
Stroke.....	118mm
Displacement.....	4.1L
Compression Ratio.....	17.5
Type of Injection	Direct
Intake System.....	Turbocharged and Aftercooled
Intake Resistance.....	$\leq 6.0\text{kPa}$
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of Fuel.....	BS2869 class A2 or BS EN590
Type of Oil	API CH4 15W/40
Oil Capacity	14L
Type of Coolant	Glycol Mixture
Coolant capacity.....	22.4L
Back Pressure	$\leq 5\text{kPa}$
Standby Power	100kW
Prime Power	90kW
Fuel Consumption(100%load).....	21.3L/h

Alternator



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA44.3S5
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings	100% copper
Insulation Class	H
Winding Pitch	2/3
Terminals	6
Drip Proof	IP23
Altitude.....	$\leq 1000\text{m}$
Overspeed	2250rpm
Air Flow.....	1m ³ /s(50Hz), 1.2m ³ /s(60Hz)
Voltage Regulation	$\pm 0.5\%$
Total harmonic TGH / THCat no load < 4 % - on load < 4%	
Telephone Interference.....	THF<2%;TIF<50

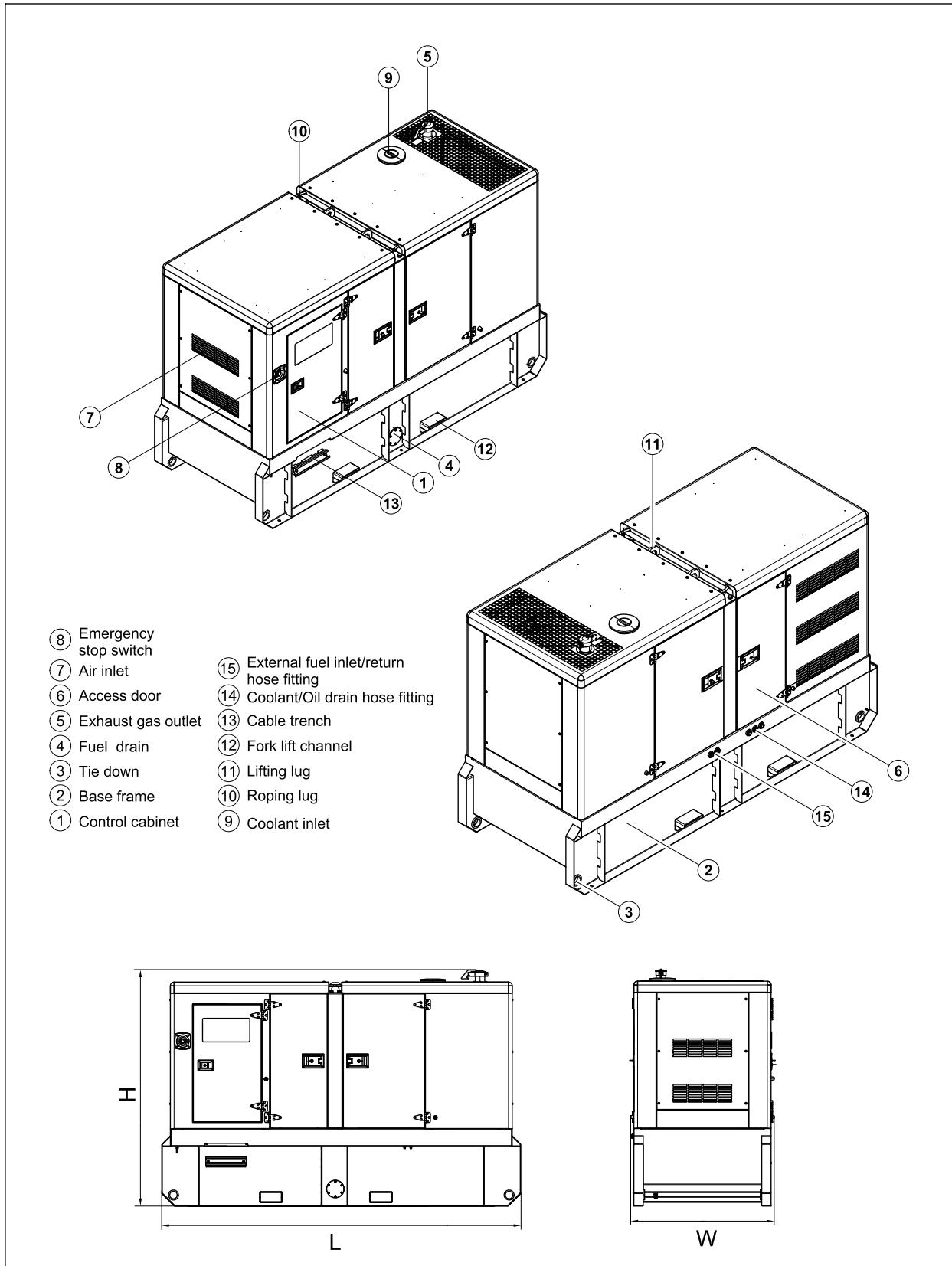
PLC-7420 Control System



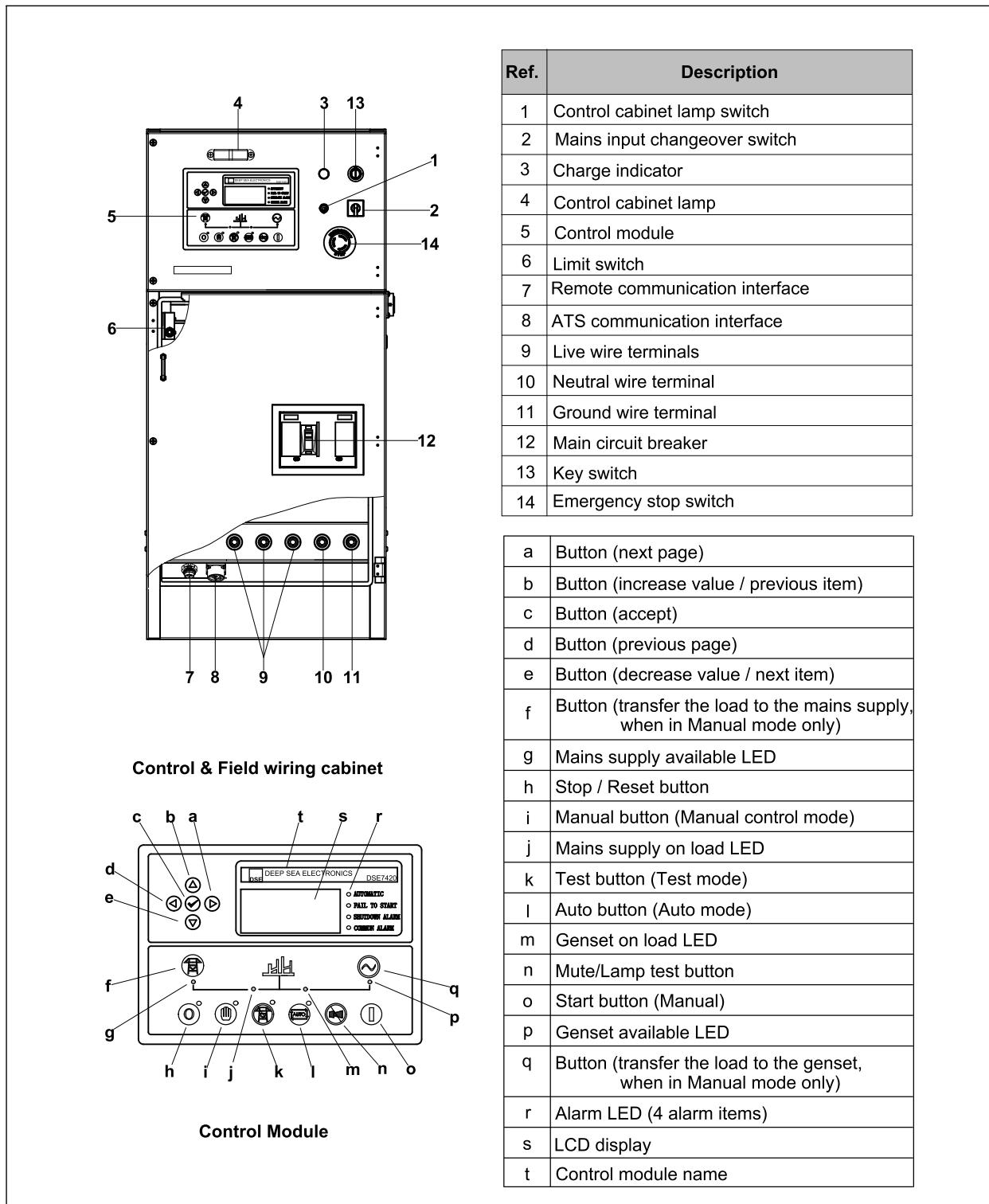
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and display all values and alarms information on the LCD. In addition, the control module can automatically shut down the engine and indicate the engine failure.

- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and 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
- Real time clock for time and date display, overall runtime display, 250 log entries
- Overall power output display
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed etc.
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol

4 Overall Dimensions



5 Control System



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10.2021

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*Specification may change without prior notice. For more info.,
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