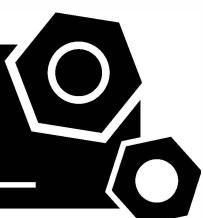


Generator set
Sound-proof type
B125SE3-AU

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 21 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

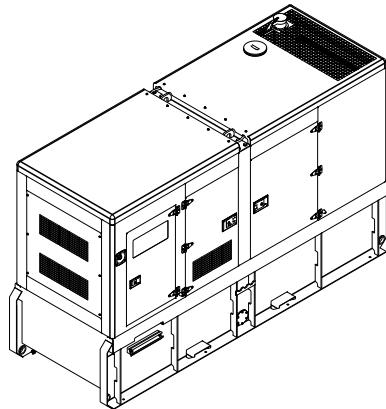
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Baudouin engine 4M12G2D3/5
- Close coupled to Leroy Somer alternator LSA44.3M6
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 200A, 4P
- Rotate speed governor: ECU
- 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

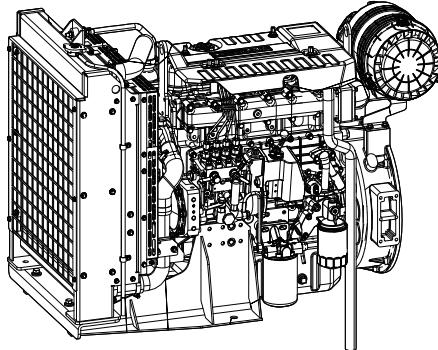
General technical data



Model.....	B125SE3-AU
Structure type	R
Tank capacity.....	620L
Dry weight.....	2257kg
Noise level @7m	72.4dBA
Dimensions L×W×H.....	3312x1172x1974mm
Standby Power	150kVA/120kW
Prime Power	125kVA/100kW

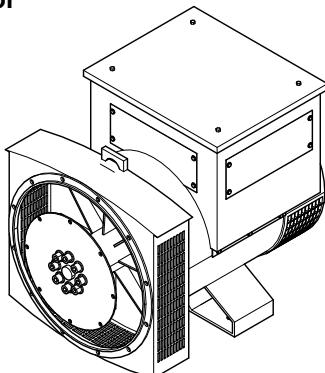
Voltage	380V	400V	415V
Ampere	190A	180A	174A
Genset Fuel Consumption			
Frequency/Load	25%	50%	75%
50Hz (L/h)	8.5	15.1	21.8
	100%	110%	28.7
			31.5

Diesel Engine



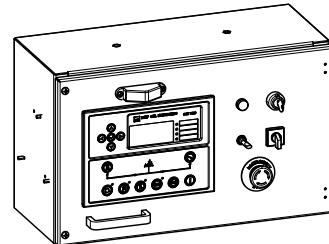
Engine Manufacturer/Brand.....	Baudouin
Engine Model.....	4M12G2D3/5
Dimensions L×W×H.....	1220×800×1060mm
Dry Weigh (approx.)	480kg
Number of Cylinders.....	4
Bore	108mm
Stroke.....	125mm
Displacement.....	4.58L
Compression Ratio.....	16.9
Type of Injection	High Pressure Common Rail
Intake System.....	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	16L
Type of Coolant	Glycol Mixture
Coolant capacity.....	7.12L
Back Pressure	≤12kPa
Standby Power	138kW
Prime Power	125kW
Fuel Consumption(100%load).....	18.8L/h

Alternator



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA44.3M6
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings	100% copper
Insulation Class	H
Winding Pitch	2/3
Terminals	6
Drip Proof	IP23
Altitude.....	≤1000m
Overspeed	2250rpm
Air Flow.....	1m³/s(50Hz),1.2m³/s(60Hz)
Voltage Regulation	±0.5%
Total harmonic TGH / THCat no load < 4 % - on load < 4%	
Telephone Interference.....	THF<2%;TIF<50

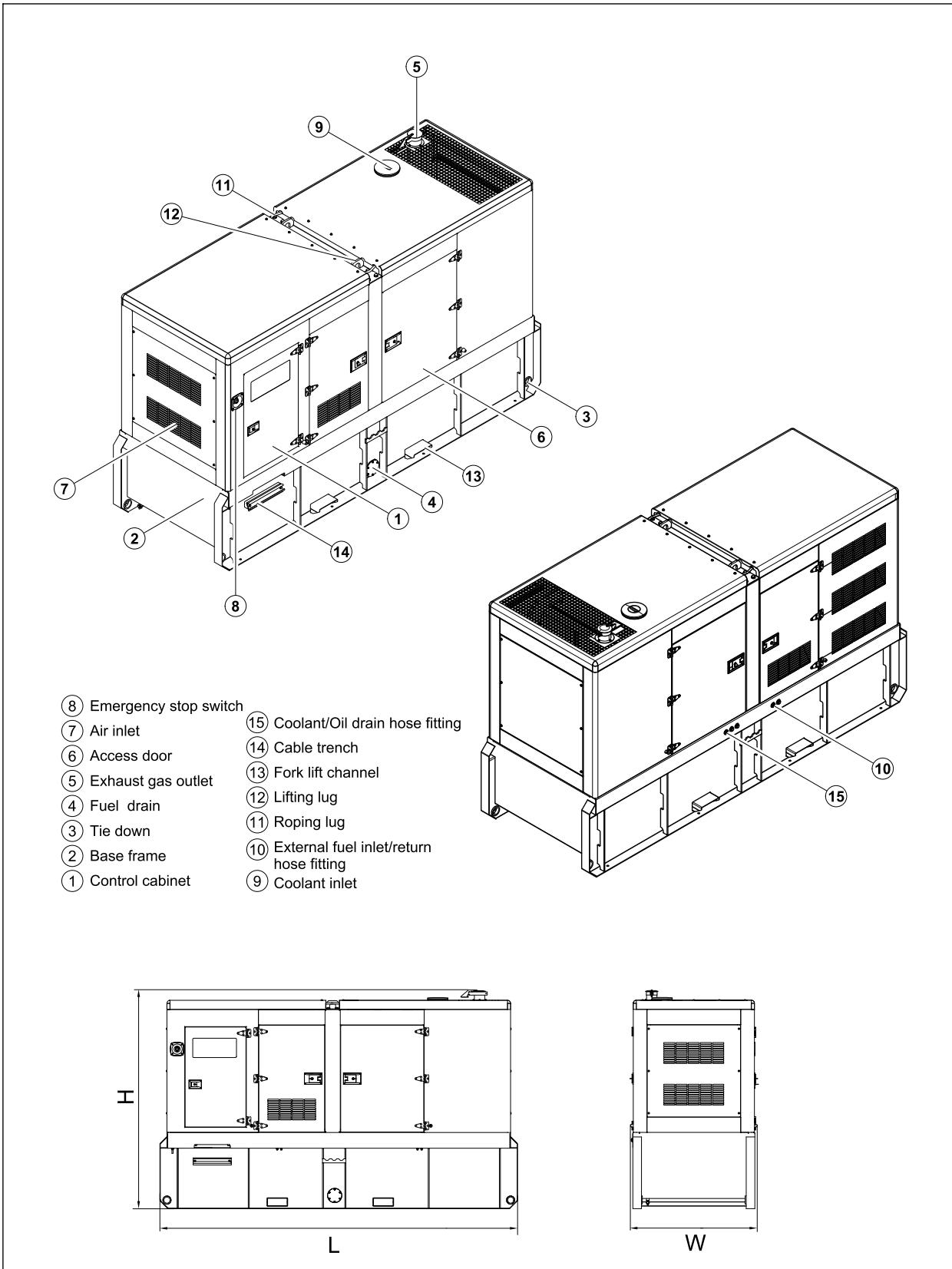
PLC-7420 Control System



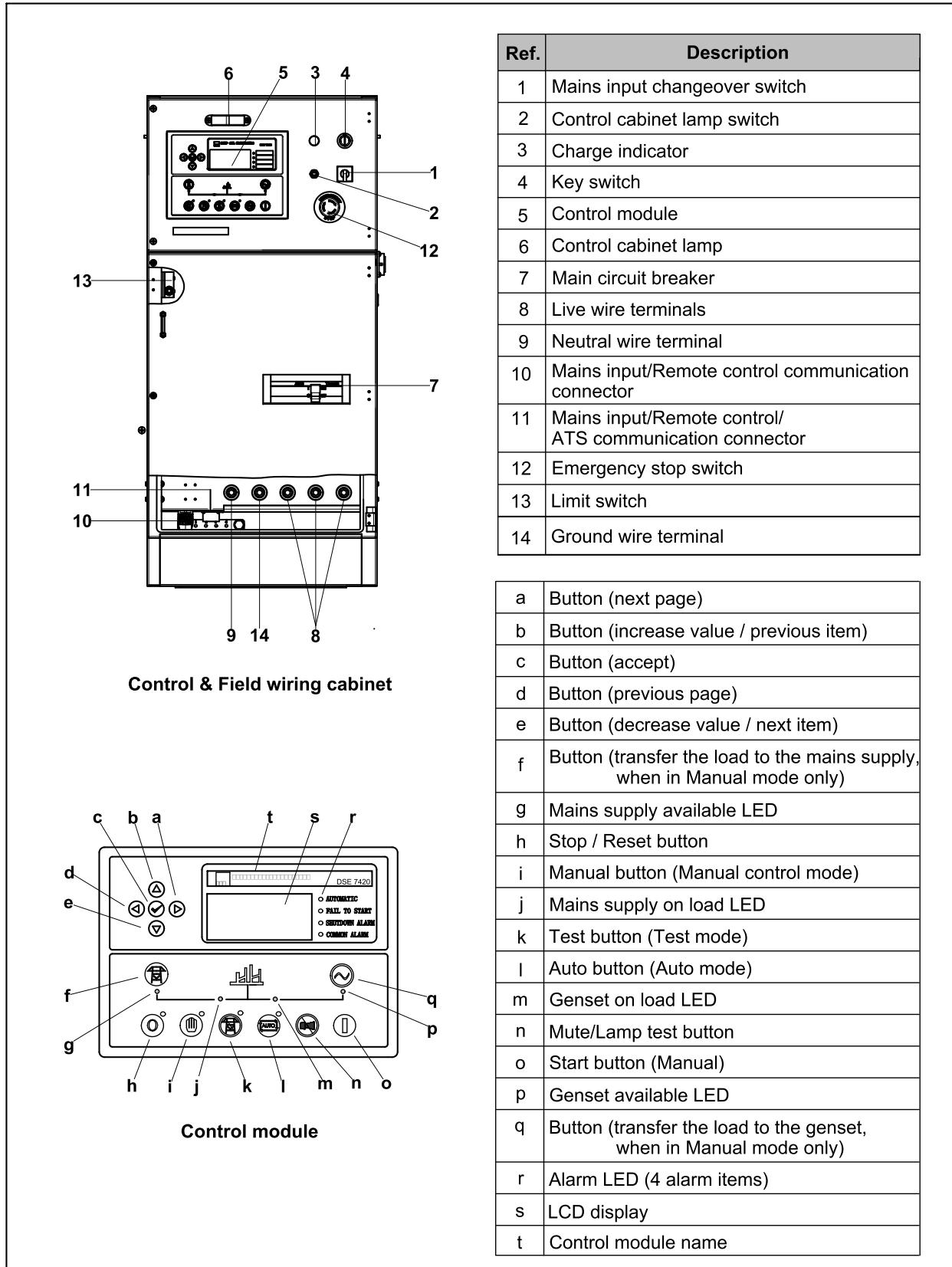
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and 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

<http://www.powerlinkworld.com>

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