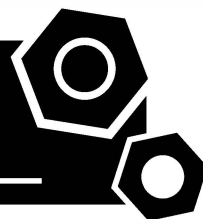


Generator set
Sound-proof type
B650SE3-AU

SPECIFICATIONS



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1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (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.

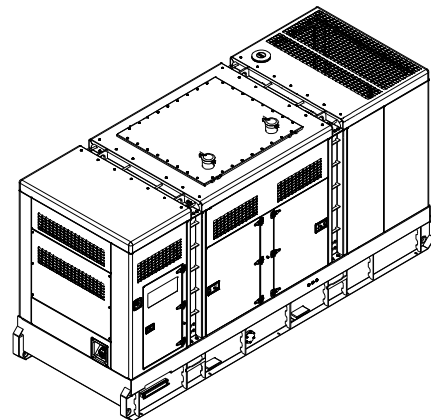
2 General Features

- Baudouin engine 6M33G6D3/5
- Close coupled to Leroy Somer alternator LSA49.3S4
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 1000A, 4P
- Rotate speed governor: ECU
- Excitation System: AREP
- A.V.R.Model: D350
- 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 12 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operator's Manual / Specifications

3 Equipment Specification

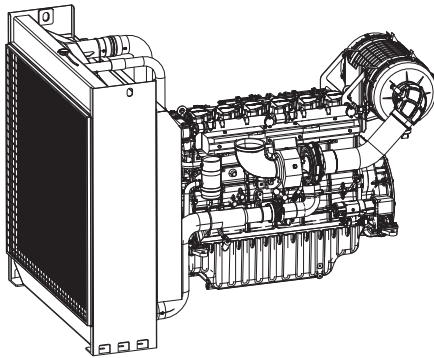
General technical data



Model.....	B650SE3-AU
Structure type	R
Tank capacity.....	1650L
Dry weight.....	6720kg
Noise level @7m	77.8dBA
Dimensions L×W×H.....	4701×1749×2617mm
Standby Power	725kVA/580kW
Prime Power	650kVA/520kW

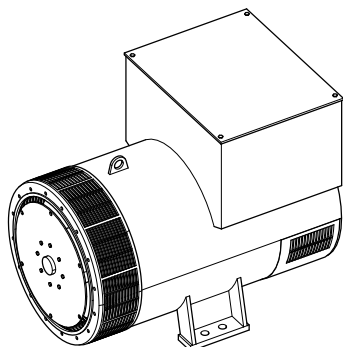
Voltage	380V	400V	415V		
Ampere	988A	938A	904A		
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	40.8	77.8	110.4	139.9	154.2

Diesel Engine



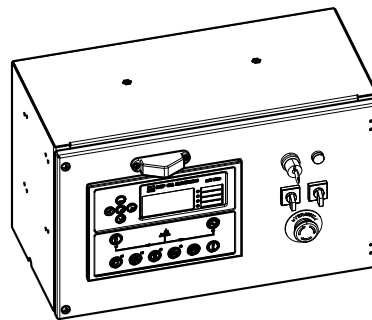
Engine Manufacturer/Brand.....	Baudouin
Engine Model.....	6M33G6D3/5
Dimensions L×W×H.....	2798x1680x1954mm
Dry Weigh (approx.)	2472kg
Number of Cylinders.....	6
Bore.....	150mm
Stroke	185mm
Displacement.....	19.6L
Compression Ratio	15.0
Type of Injection	High Pressure Common Rail
Intake System.....	Turbocharged and aftercooled
Intake Resistance	≤6.5kPa
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	64L
Type of Coolant	Glycol Mixture
Coolant capacity	159L
Back Pressure	≤7.5kPa
Standby Power	633kW
Prime Power	575kW
Fuel Consumption(100%load).....	139.9L/h

Alternator



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA49.3S4
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 / THC at 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 micro-processor, 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

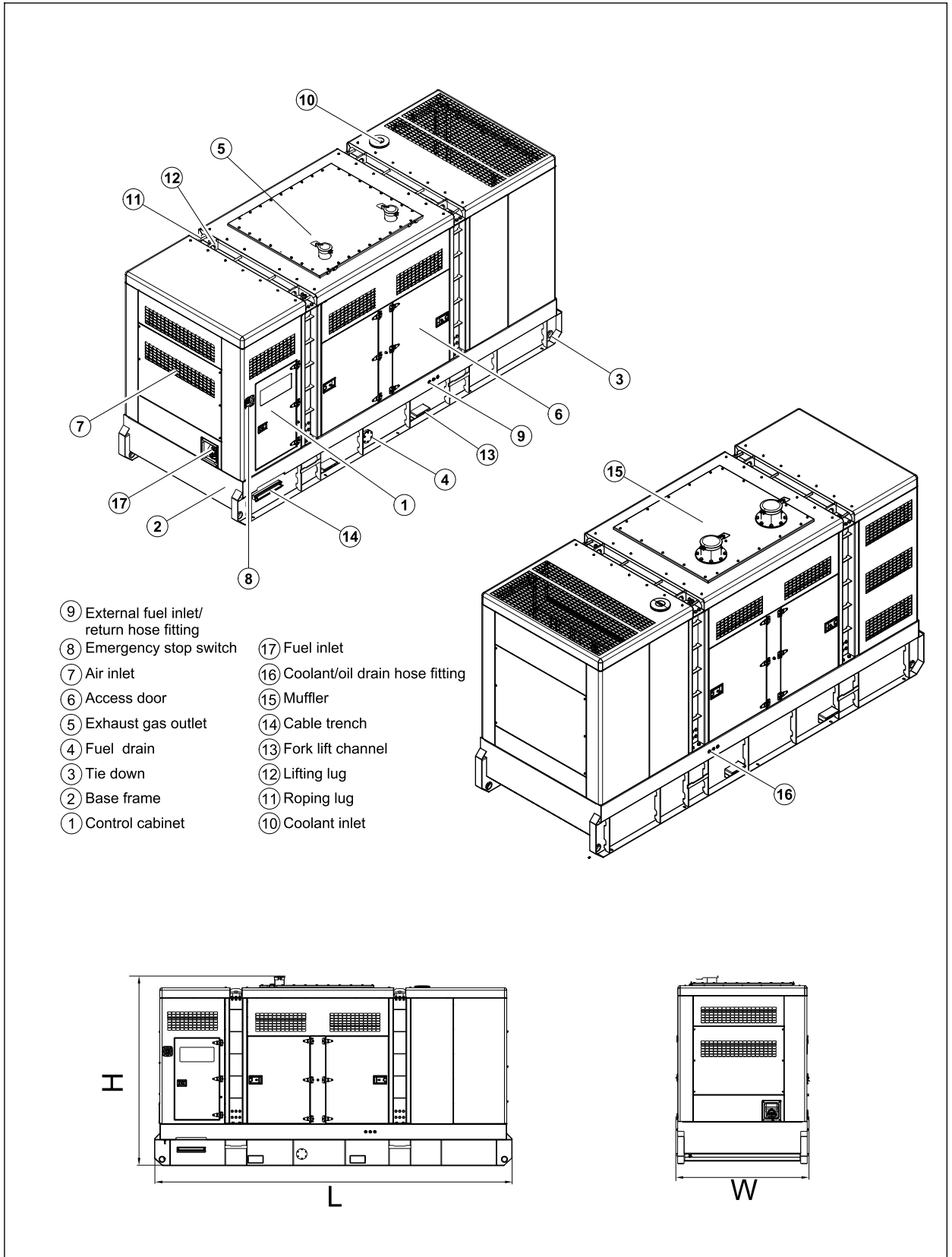
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4 Overall Dimensions



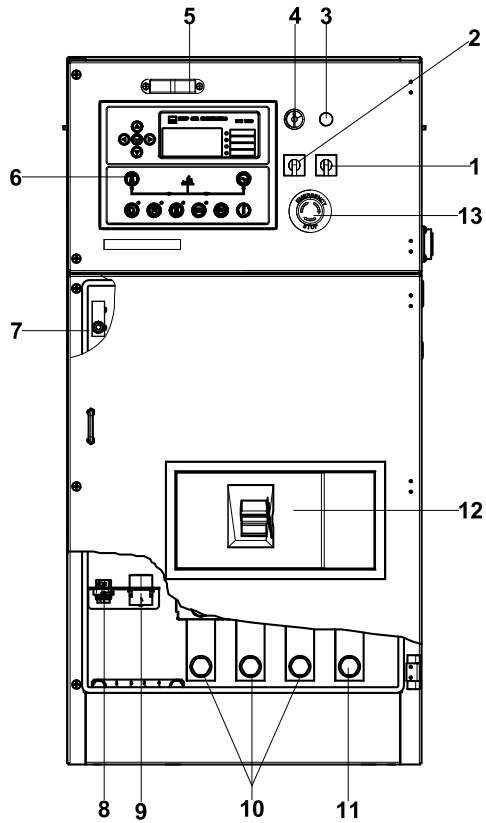
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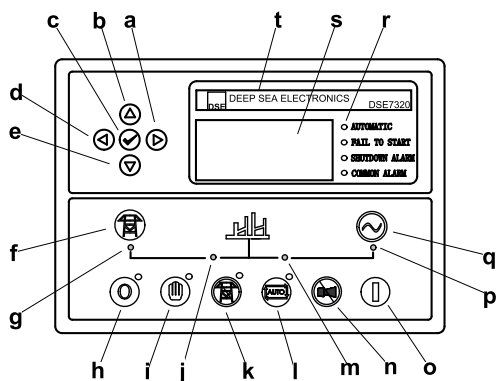
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5 Control System



Control & Field wiring cabinet



Control Panel

Ref.	Description
1	Control cabinet lamp switch
2	Mains input changeover switch
3	Charge indicator
4	Key switch
5	Control cabinet lamp
6	Control module
7	Limit switch
8	Remote run connector
9	ATS connector
10	Live wire terminals
11	Neutral wire terminal
12	Main circuit breaker
13	Emergency stop switch

a	Button (next page)
b	Button (increase value / previous item)
c	Button (accept)
d	Button (previous page)
e	Button (decrease value / next item)
f	Button (transfer the load to the mains supply, when in Manual mode only)
g	Mains supply available LED
h	Stop / Reset button
i	Manual button (Manual control mode)
j	Mains supply on load LED
k	Test button (Test mode)
l	Auto button (Auto mode)
m	Genset on load LED
n	Mute/Lamp test button
o	Start button (Manual)
p	Genset available LED
q	Button (transfer the load to the genset, when in Manual mode only)
r	Alarm LED (4 alarm items)
s	LCD display
t	Control module name

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