

Generator set
Containerized type
R1875B

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℃ to 45℃. The coolant heater is needed when the temperature is below 5℃
- Humidity: Less than 80%.
- Altitude: Below one thousand (1000) meters.

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.

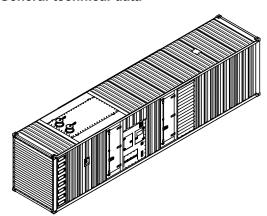
2 General Features

- Baudouin engine 16M33G8D3/5
- Close coupled to Leroy Somer alternator LSA52.3S6
- Microprocessor control module PLC-500
- ABB main circuit breaker: 3200A, 4P
- Rotate speed governor: ECU
- Excitation System: AREP
- A.V.R.Model: D550
- Key switch
- Emergency stop switch
- · ATS (automatic transfer switch) receptacle
- 4x12V/150AH sealed for life maintenance free battery
- · Lockable battery isolator switch

- Powder coated canopy
- 50°C radiator
- · Fire extinguisher
- · Oil pump on the engine
- · Steel base frame with forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Fuel tank for 3 hours running
- Drain points for fuel tank
- Fuel inlet pump and control box for the fuel tank
- Added fuel-water separator for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

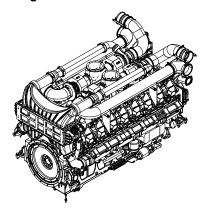
General technical data



Model	R1875B
Structure type	C
Tank capacity	2400L
Dry weight	20100kg
Noise level @7m	83.0dBA
Dimensions L×W×H	12192×2438×2896mm
Standby Power	2250kVA/1800kW
Prime Power	2000kVA/1600kW

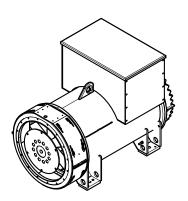
Voltage	380	V		00V	415V		440V	
Ampere	3039	A 28		387A	2782A		2624A	
Genset Fuel Consumption								
Frequency	//Load	25	%	50%	75%	10	00%	110%
50Hz (l	_/h)	11	2	203	296	3	97	438

Diesel Engine



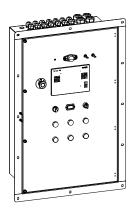
Engine Manufacturer/Brand	IBaudouin
Engine Model	16M33G8D3/5
Dimensions L×W×H	4116x2756x2870mm
Dry Weigh (approx.)	6825kg
Number of Cylinders	16
Bore	150mm
Stroke	185mm
Displacement	52.3L
Compression Ratio	15
Type of Injection	High Pressure Common Rail
Intake System	Turbocharged and aftercooled
Intake Resistance	≦6.2kPa
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	175L
Type of Coolant	Glycol mixture
Coolant capacity	542L
Back Pressure	≦7.5kPa
Standby Power	1980kW
Prime Power	1800kW
Fuel Consumption(100%loa	ad)397L/h

Alternator



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA52.3S6
Exciter	Brushless
Cooling Fan	Cast alloy aluminum
Windings	100% copper
Insulation Class	H
Winding Pitch	2/3
Drip Proof	IP23
Overspeed	2250rpm
Voltage Regulation	±0.5%
Total harmonic TGH / THC	< 2.5%
Telephone Interference	THF<2%;TIF<50

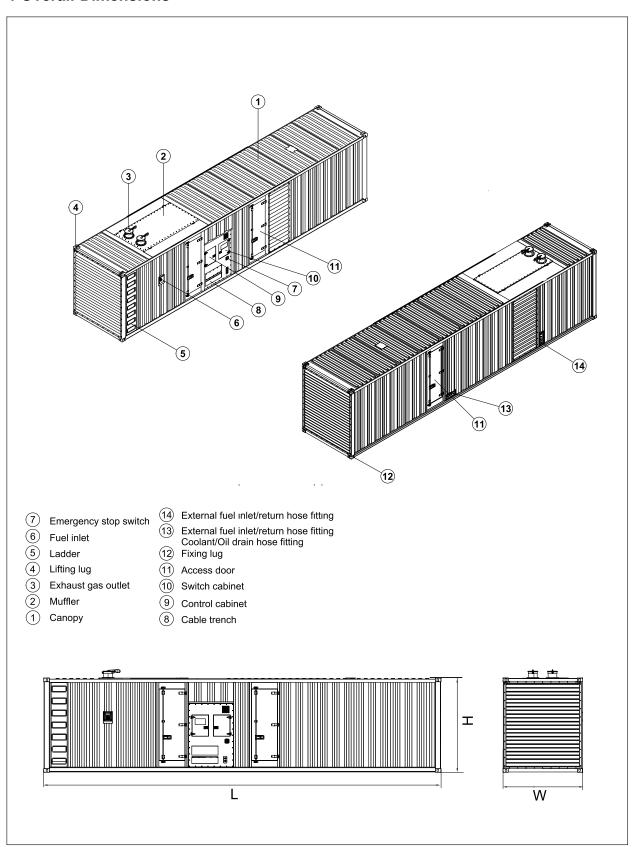
PLC-500 Control System



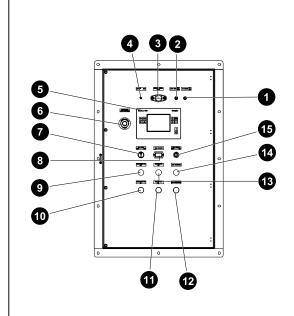
PLC-500 is a microprocessor based control unit containing all necessary functions for protection of the genset and the breaker control. Furthermore, it contains all necessary three-phase measuring circuits and presents all values and alarms on the LCD display. The module has the function of load sharing 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

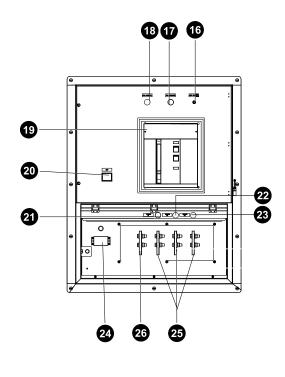
4 Overall Dimensions



5 Control System



Control cabinet



Ref.	Description
1	DC switch
2	Lamp switch
3	Control cabinet lamp
4	Charge indicator
5	Control module
6	Emergency stop switch
7	Oil pump switch
8	Time counter
9	Engine room fan off
10	Engine room fan on
11	Radiator fan on
12	GCB open(green)
13	Radiator fan off
14	GCB close(red)
15	Key switch
16	Lamp switch
17	GCB open(green)
18	GCB close(red)
19	Main circuit breaker
20	R.C.D
21	Busbar L1
22	Busbar L2
23	Busbar L3
24	Ground wire terminal
25	Live wire terminals
26	Neutral wire terminal

Field wiring cabinet

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