

SPECIFICATION

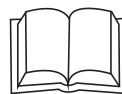


Power Link the World

MODEL R1250B RG SERIES (FOR 50Hz DIESEL GENSET)

Revision: A7 (02/23)

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**RG series
R1250B**



50 Hz @ 1500rpm,3-phase/4-wiring

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- ISO8528-5:2005
- GB/T2820.5-2009

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.

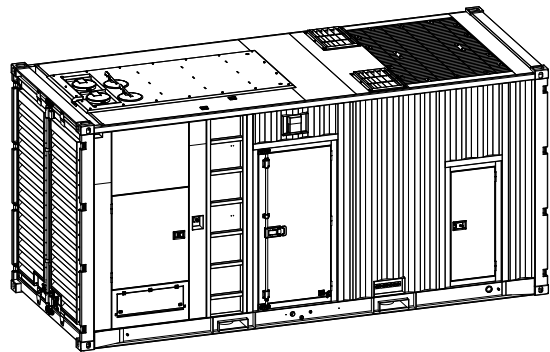
2 General Features

- Cummins engine 12M33G8D3/5
- Close coupled to Leroy Somer alternator LSA50.2M6
- Microprocessor controller PLC500
- ABB main circuit breaker: 2500A
- 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/120AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Steel base frame with forklifts
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 4 hours running
- Drain points for fuel tank
- Operator's Manual / Specifications

3 Equipment Specification

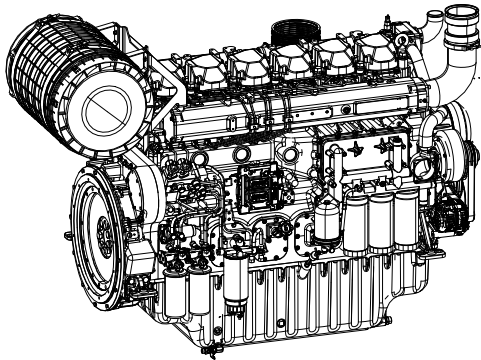
General technical data



Model.....R1250B
 Tank capacity.....1100L
 Dry weight.....14984kg
 Sound pressure level @ 7m.....74dBA
 Dimensions L×W×H.....6058x2438x2896mm
 Standby Power.....1375kVA/1100kW
 Prime Power.....1250kVA/1000kW

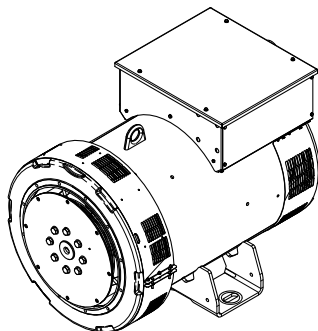
Voltage	380V	400V	415V	440V	
Ampere	1899A	1804A	1739A	1640A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	73.8	147.2	209.2	269.4	N/A

Dck Yf GrghYa



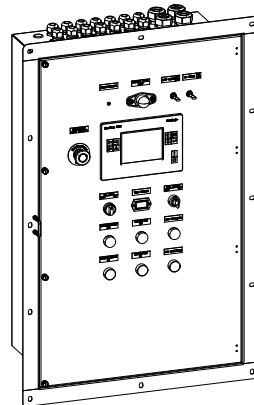
Engine Manufacturer/Brand.....	Cummins
Engine Model.....	12M33G8D3/5
Dimensions L×W×H.....	3525×2241.5×2243mm
Dry Weight (approx.)	4575kg
Number of Cylinders.....	12
Bore.....	150mm
Stroke.....	185mm
Displacement.....	39.2L
Compression Ratio.....	15
Type of injection.....	Direct injection
Intake System.....	Turbocharged and Aftercooled
Intake Resistance.....	≤6.5kPa
Cooling System.....	Water cooled
Fan.....	Pusher
Battery Voltage.....	24V
Type of Fuel.....	No.2 or ASTM D975
Type of Oil.....	API CD/SE or CCMCD4
Oil Capacity.....	160L
Type of Coolant.....	Glycol mixture
Coolant Capacity engine only.....	303L
Back Pressure.....	≤7.5kPa
Standby Power.....	1240kW
Prime Power.....	1130kW
Fuel Consumption(100%load).....	269.4L/h

Alternator



Alternator Manufacturer/Brand.....	Leroy Somer
Alternator Model.....	LSA50.2M6
Exciter.....	Brushless
Cooling Fan.....	Cast alloy aluminum
Windings.....	100% copper
Insulation Class.....	H
Winding Pitch.....	2/3
Terminals.....	12
Drip Proof.....	IP23
Altitude.....	≤1000m
Overspeed.....	2250rpm
Air Flow.....	N/A
Voltage Regulation.....	±1.0%
Total Harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

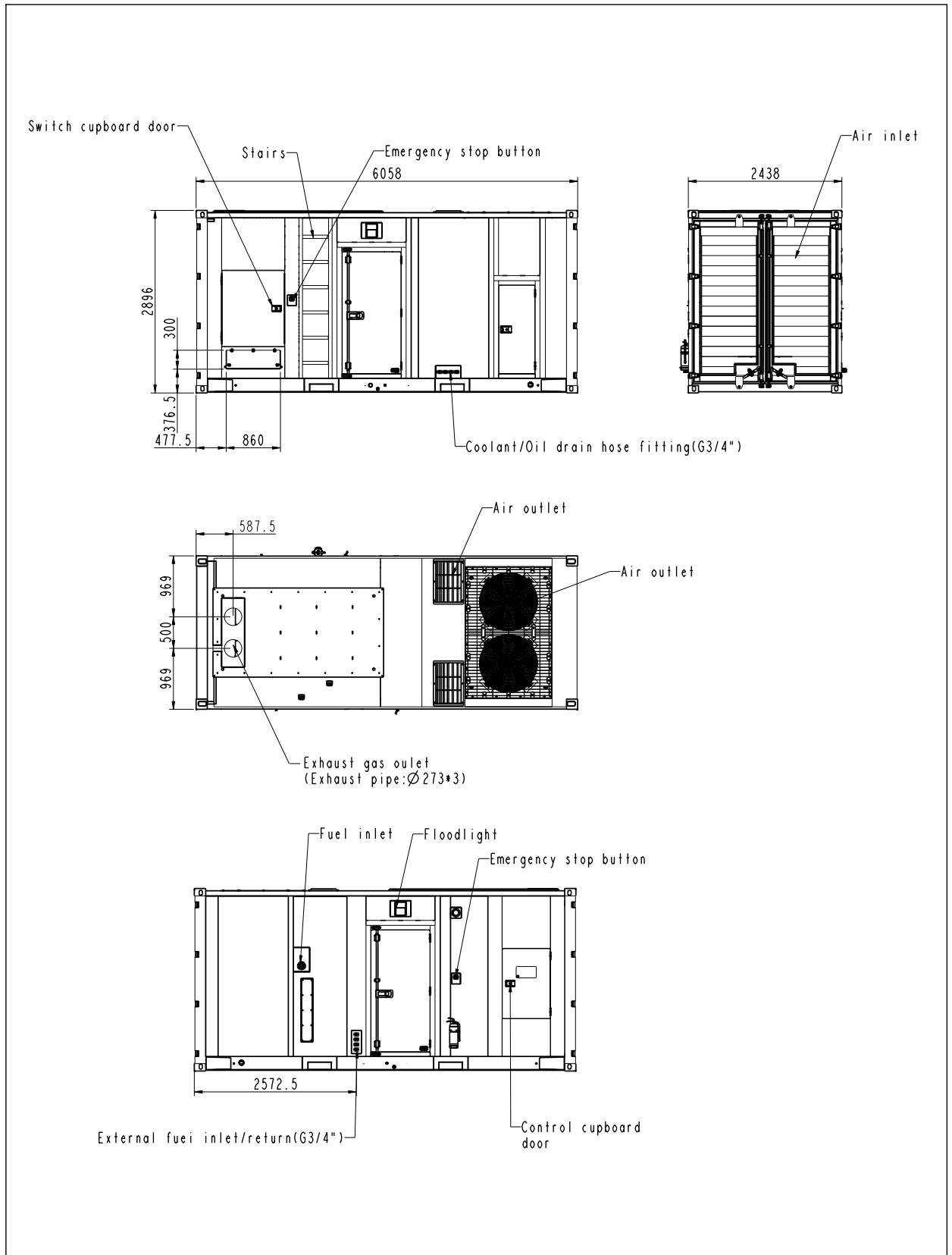
PLC500 Control System



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.

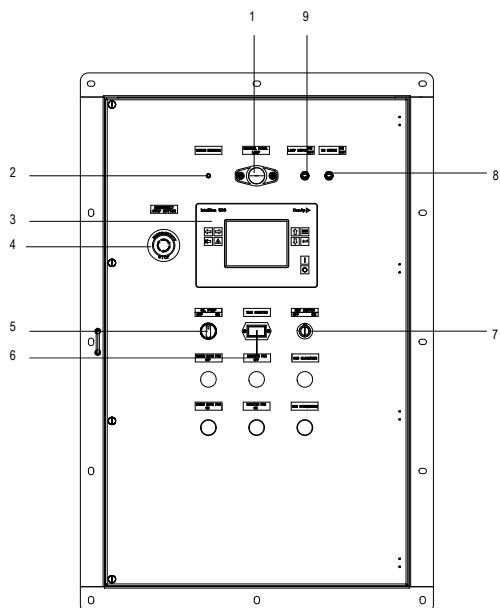
- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and 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



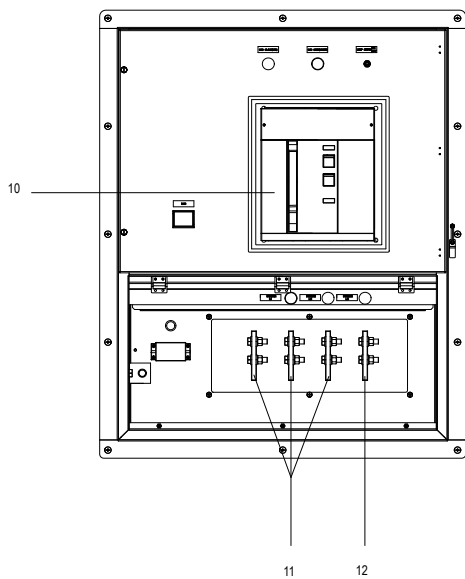
5 Control System

Control Cabinet



Ref.	Description
1	Control panel lamp
2	Charge indicator
3	Control module
4	Emergency stop button
5	Oil pump
6	Time counter
7	Key switch
8	DC switch
9	Lamp switch
10	Main circuit breaker
11	Live wire terminals
12	Neutral wire terminal

Breaker Cabinet



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