SPECIFICATION

POWERINK
Power Systems
Power Link the World

MODEL R125C

RG SERIES

(FOR 50Hz DIESEL GENSET)

Revision: A4 (11/22)

To inquire the latest revision of document, visit our website at: www.powerlinkworld.com



RG series
R125C
50 Hz @ 1500rpm,3-phase/4-wiring

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- ISO8528-5:2005
- GB/T2820.5-2009

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 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

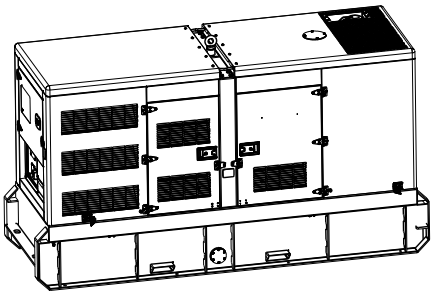
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Cummins engine QSB5.9-G3
- Close coupled to Leroy Somer alternator LSA44.3M6
- Microprocessor controller ComAp InteliLite4-AMF9
- ABB main circuit breaker: 200A
- 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
- 2x12V/72AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50℃ radiator
- Steel base frame with forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 23 hours running
- Drain points for fuel tank
- Operator's Manual / Specifications

3 Equipment Specification

General technical data

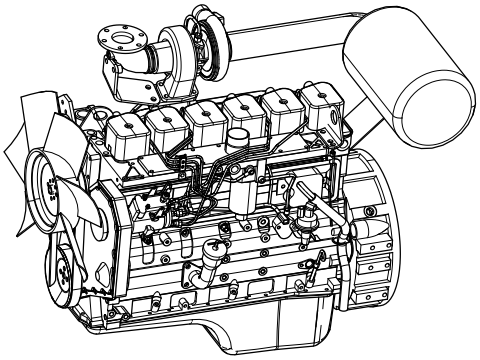


Model..... R125C
Tank capacity.....720L
Dry weight.....2432kg
Sound pressure level @ 7m 70.2dBA
Dimensions L×W×H.....3538x1172x2000mm
Standby Power 140kVA/112kW
Prime Power 125kVA/100kW

Voltage	380V	400V	415V	440V
Ampere	273.4A	225.5A	217.4A	205.0A

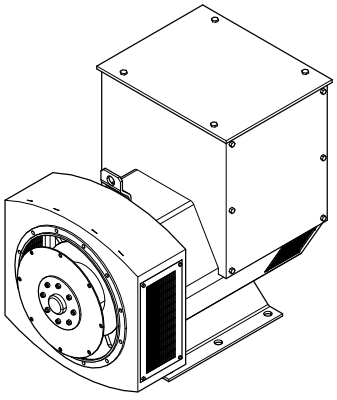
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	10	18	25	31	34

Power System



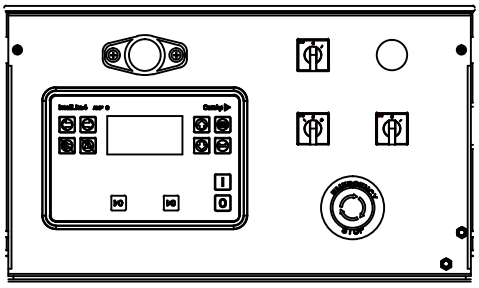
Engine Manufacturer/Brand.....Cummins
Engine Model.....QSB5.9-G3
Dimensions L×W×H.....1075x706x915mm
Dry Weigh (approx.) 406kg
Number of Cylinders.....6
Bore 102mm
Stroke 120mm
Displacement.....5.9L
Compression Ratio 17.3
Type of injection.....High pressure common rail
Intake System.....Turbocharged,air-to-air charge cooled
Intake Resistance .....≦3.70kPa
Cooling System .....Water cooled
Fan ..... Pusher
Battery Voltage 24V
Type of Fuel..... No.2 or ASTM D975
Type of Oil 15W40-CH4
Oil Capacity 16.4L
Type of Coolant .....Glycol mixture
Coolant Capacity 9.0L
Back Pressure .....≦10.1kPa
Standby Power 132kW
Prime Power 120kW

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 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

InteliLite4-AMF9 Control System

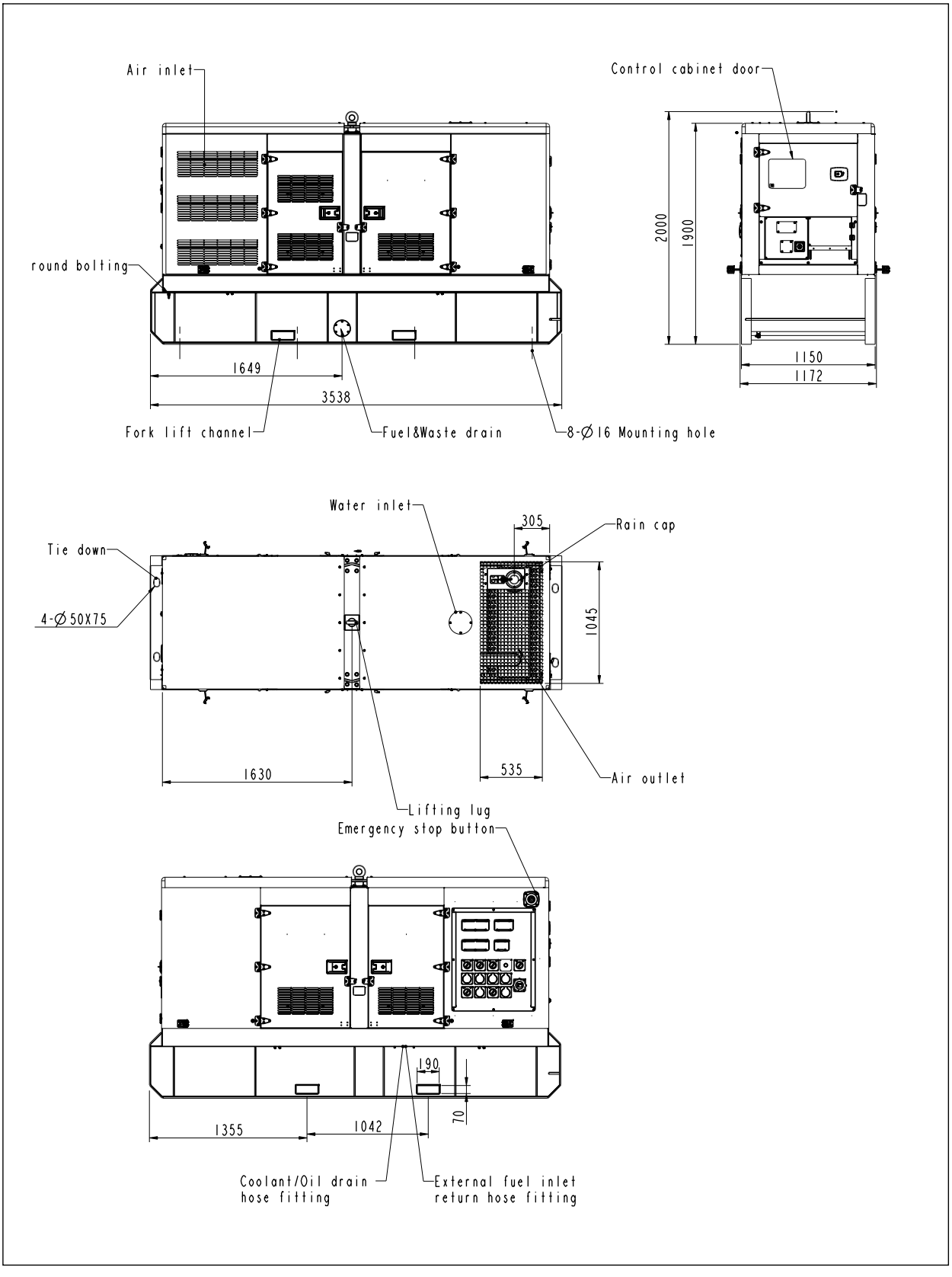


InteliLite4-AMF9 is Single Gen-set controller for stand-by and prime-power applications and all-in-one intuitive & powerful PC tool for configuration/monitoring/control, locally or remotely and easy to install, configure and use

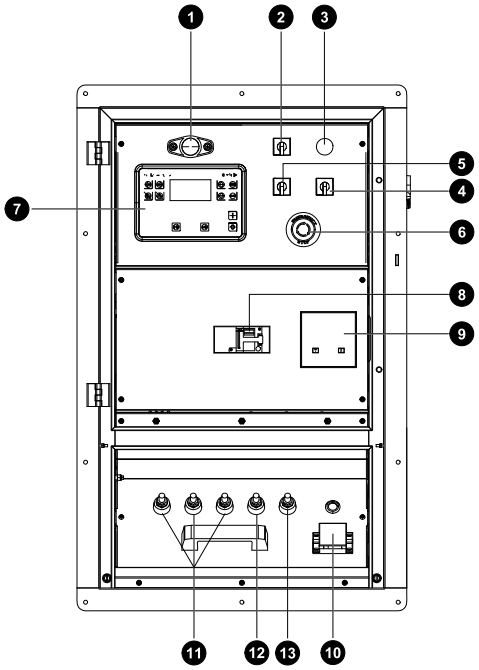
Standard Control Function

- Stand-by and prime-power application in one unit
- Dual Mutual Standby application support
- Remote display
- User setpoints and protections
- User Access Management
- Cyber security improvement
- Alternative configurations
- Multi-purpose schedulers

4 Overall Dimensions



5 Control System



Ref.	Description
1	Control panel lamp
2	Lamp switch
3	Not ready
4	Control power
5	Control mode
6	Emergency stop button
7	Control module
8	Main circuit breaker
9	RCD.
10	Mains input/remote communication connector
11	Live wire terminals
12	Neutral wire terminal
13	Ground wire terminal



Ref.	Description
1	LEFT button.
2	RIGHT button
3	HORN RESET button
4	FAULT RESET button
5	UP button
6	PAGE button
7	DOWN button
8	ENTER button
9	START button
10	STOP button
11	GCB button
12	MCB button
13	GENERATOR status indicator
14	MAINS status indicator
15	Graphic B/W display, 132 × 64 px.
16	GCB Status
17	MCB Status

SPECIFICATION

RG SERIES DIESEL GENSET

R125C

Revision: A4 (11/22)

To inquire the latest revision of document, visit our website at: www.powerlinkworld.com

