

SPECIFICATION



MODEL R23K RG SERIES (FOR 50Hz DIESEL GENSET)

Revision: C4 (02/24)

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RG series
R23K,EU Stage IIIA
50 Hz @ 1500rpm,3-phase/5-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.

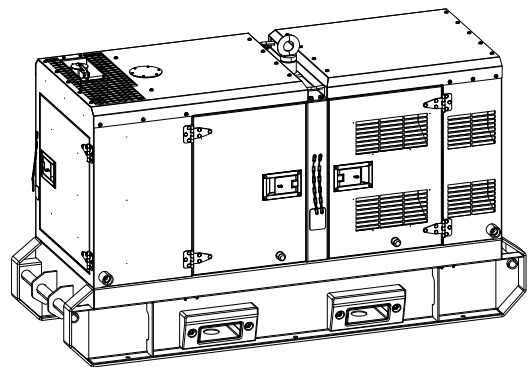
2 General Features

- Kubota engine V2403-M-DI-BG
- Close coupled to Leroy Somer alternator LSA40M7
- Microprocessor controller ComAp IntelliLite4-AMF9
- ABB main circuit breaker: 63A,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

- Convenience receptacles: 3P and 1P
- 1x12V/72AH 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 21 hours running
- Drain points for fuel tank
- Operator's Manual / Specifications

3 Equipment Specification

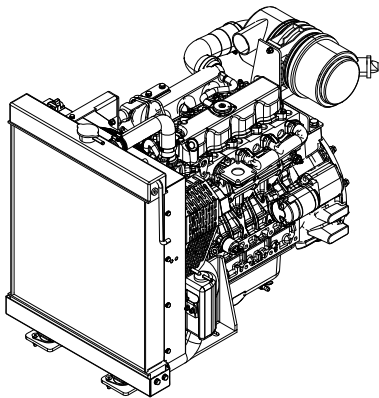
General technical data



Model.....	R23K
Tank capacity.....	120L
Dry weight.....	935kg
Sound pressure level @ 7m	61dBA
Dimensions L×W×H.....	2180x850x1322mm
Standby Power	25kVA/20kW
Prime Power	23kVA/18kW

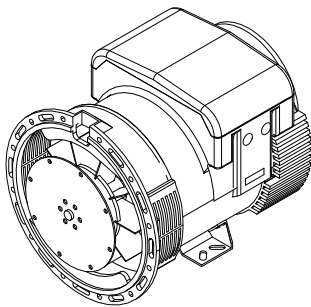
Voltage	380V	400V	415V	440V	
Ampere	34.9A	33.2A	32.0A	30.2A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	2.8	4.1	5.5	6.1

Power System



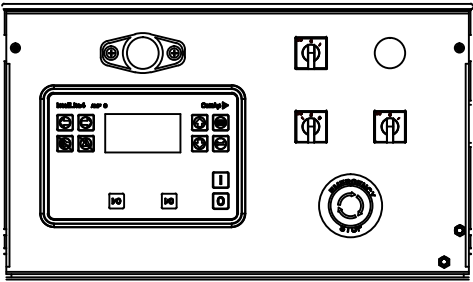
Engine Manufacturer/Brand	Kubota
Engine Model	V2403-M-DI-BG
Dimensions L×W×H	706.4x492x682.5mm
Dry Weigh (approx.)	180kg
Number of Cylinders	4
Bore	102mm
Stroke	120mm
Displacement	3.9L
Compression Ratio	17.3
Type of injection	High pressure common rail
Intake System	Turbocharged
Intake Resistance	≤3.92kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of Fuel	No.2-D S15, Ultra Low Sulfur Fuel Only
Type of Oil	Class CJ-4/CK-4 oil as per API classification
Oil Capacity	10.9L
Type of Coolant	Glycol mixture
Coolant Capacity	7.0L
Back Pressure	≤6.7kPa
Standby Power	24.7kW
Prime Power	20.7kW

Alternator



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA40M7
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

IntelliLite4-AMF9 Control System

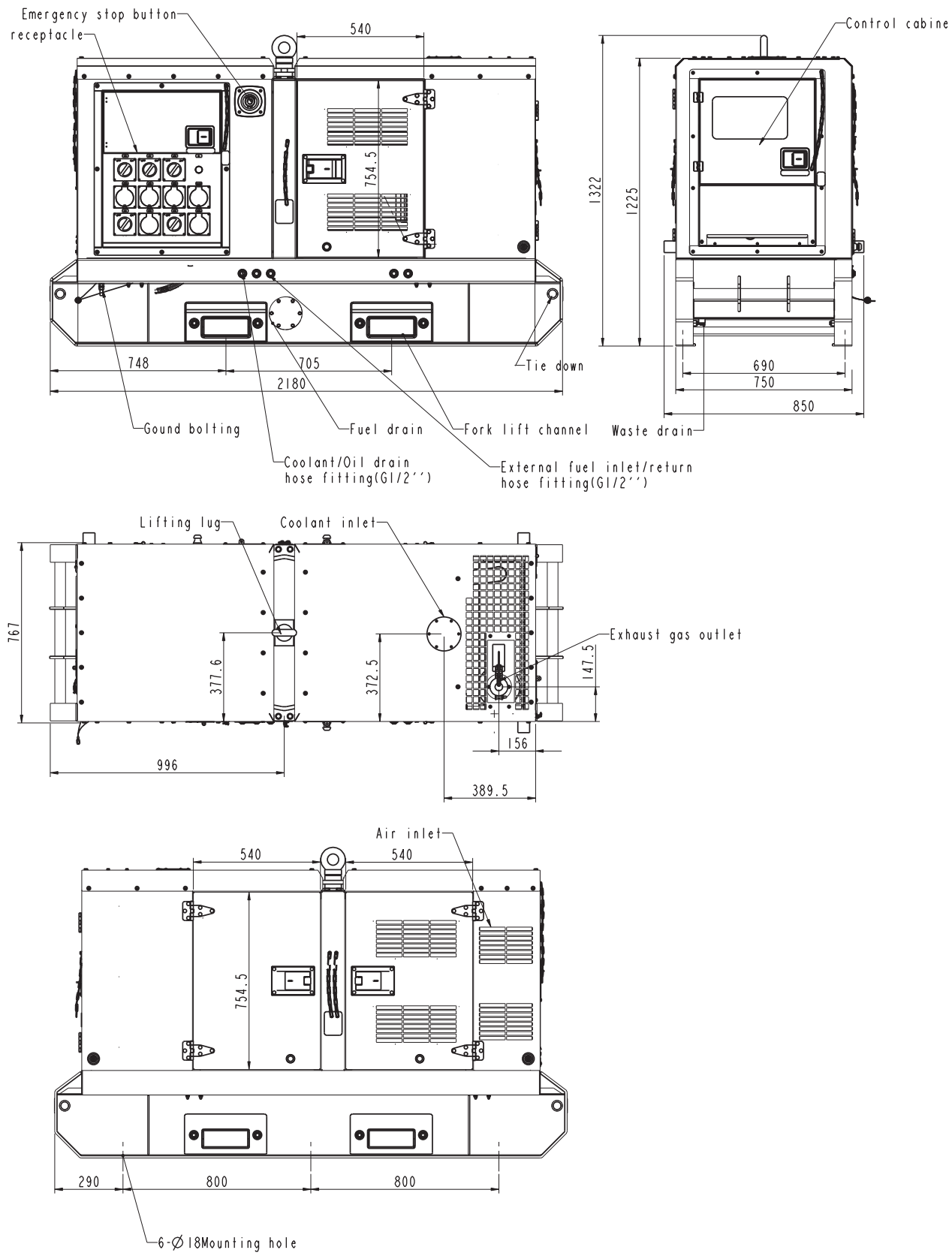


IntelliLite4-AMF9 is Single Gen-set controller for stand-by and prime-power applications and all-in-one intuitive & powerful PC tool for configuration/monitoring/control, locally or remotely and easy to install, configure and use

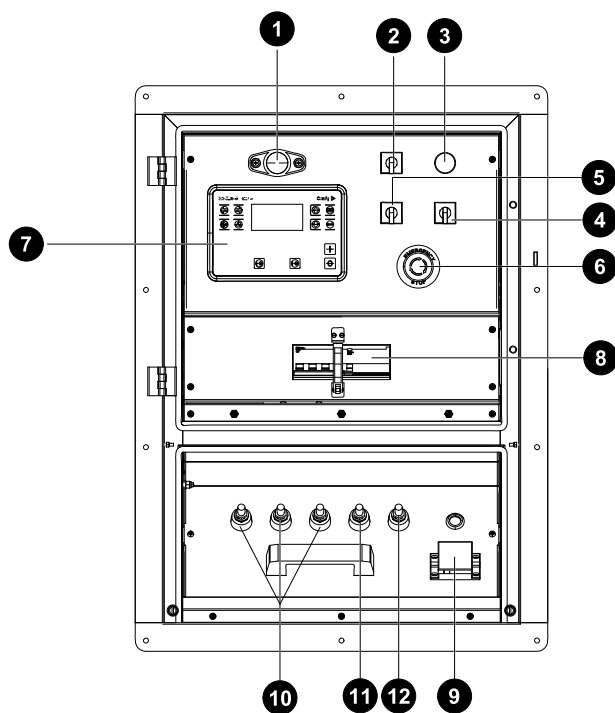
Standard Control Function

- 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

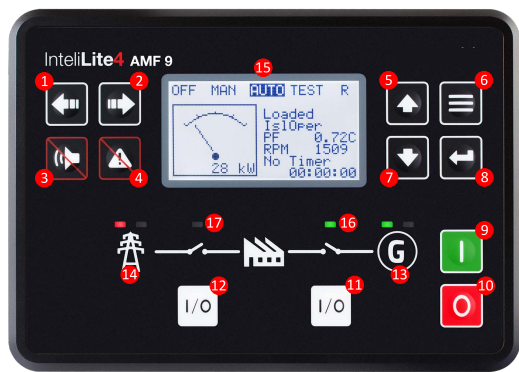
4 Overall Dimensions



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	Mains input/remote communication connector
10	Live wire terminals
11	Neutral wire terminal
12	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

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