

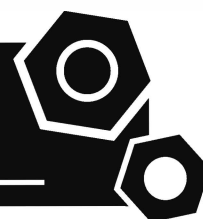
**Generator set**

**Sound-proof type**

**PK10KS**

# **SPECIFICATIONS**

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# RS series

## R10KS,EU Stage IIIA

50 Hz @ 1500rpm,1-phase/3-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 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.

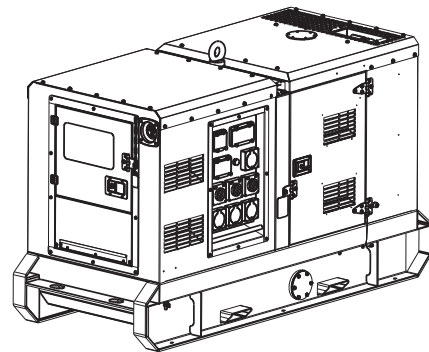
## 2 General Features

- Kubota engine D1105-BG
- Close coupled to Leroy somer alternator LSA40S3
- Microprocessor control module InteliLite4-AMF9
- ABB main circuit breaker: 63A,2P
- Rotate speed governor: Mechanical governor
- Excitation System: Self excited,SHUNT
- Control power switch
- 2 x Emergency stop switch
- Remote start wiring terminals
- 1x12V sealed for life maintenance free battery

- 3x Convenience receptacles and isolating switches
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Steel base frame with forklifts
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 27 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

## 3 Equipment Specification

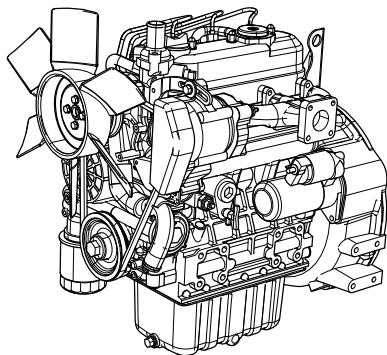
### General technical data



|                       |                 |
|-----------------------|-----------------|
| Model.....            | R10KS           |
| Structure type .....  | R               |
| Tank capacity.....    | 110L            |
| Dry weigh.....        | 767kg           |
| Noise level @7m ..... | 64.7dBA         |
| Dimensions L×W×H..... | 2050x928x1286mm |
| Standby Power .....   | 11kVA/8.8kW     |
| Prime Power .....     | 10kVA/8kW       |

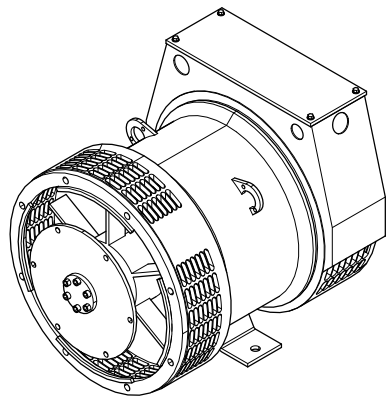
|                         |       |       |       |      |      |
|-------------------------|-------|-------|-------|------|------|
| Voltage                 | 220V  | 230V  | 240V  |      |      |
| Ampere                  | 45.5A | 43.5A | 41.7A |      |      |
| Genset Fuel Consumption |       |       |       |      |      |
| Frequency/Load          | 25%   | 50%   | 75%   | 100% | 110% |
| 50Hz (L/h)              | N/A   | 1.8   | 2.9   | 3.5  | 3.9  |

Diesel engine



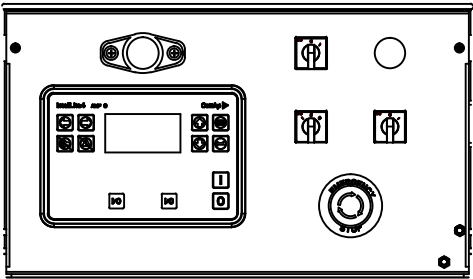
|                                 |                          |
|---------------------------------|--------------------------|
| Engine Manufacturer/Brand.....  | KUBOTA                   |
| Engine Model.....               | D1105-BG                 |
| Dimensions L×W×H.....           | 549.3×398.0×604.7mm      |
| Dry Weigh (approx.) .....       | 93kg                     |
| Number of Cylinders.....        | 3                        |
| Bore.....                       | 78mm                     |
| Stroke .....                    | 78.4mm                   |
| Displacement.....               | 1.123L                   |
| Compression Ratio.....          | 22                       |
| Type of Injection .....         | Direct injection         |
| Intake System.....              | Natural aspirated        |
| Intake Resistance.....          | 1.96kPa                  |
| Cooling System .....            | Water cooled             |
| Fan .....                       | Pusher                   |
| Battery Voltage .....           | 12V                      |
| Type of Fuel.....               | No.2-D(ASTMD975)         |
| Type of Oil .....               | Better than API CD class |
| Oil Capacity .....              | 5.1L                     |
| Type of Coolant .....           | Glycol mixture           |
| Coolant Capacity .....          | 6.4L                     |
| Back Pressure .....             | ≤7.07kPa                 |
| Standby Power .....             | 9.5kW                    |
| Prime Power .....               | 8.4kW                    |
| Fuel Consumption(100%load)..... | 3.5L/h                   |

Alternator



|                                                           |                                 |
|-----------------------------------------------------------|---------------------------------|
| Alternator Manufacturer/Brand .....                       | Leroy Somer                     |
| Alternator Model .....                                    | LSA40S3                         |
| Exciter.....                                              | Brushless                       |
| Cooling Fan .....                                         | Synthetic plastic               |
| Windings.....                                             | 100% copper                     |
| Insulation Class .....                                    | H                               |
| Winding Pitch.....                                        | 2/3                             |
| Terminals .....                                           | 12                              |
| Drip Proof .....                                          | IP23                            |
| Altitude.....                                             | ≤1000m                          |
| Overspeed .....                                           | 2250rpm                         |
| Air Flow.....                                             | 0.11 m³/s(50Hz),0.135m³/s(60Hz) |
| Voltage Regulation .....                                  | ±0.5 %                          |
| Total harmonic TGH / THCat no load < 1.5 % - on load < 5% |                                 |
| Telephone Interference.....                               | THF<2%;TIF<50                   |

InteliLite4-AMF9 Control System

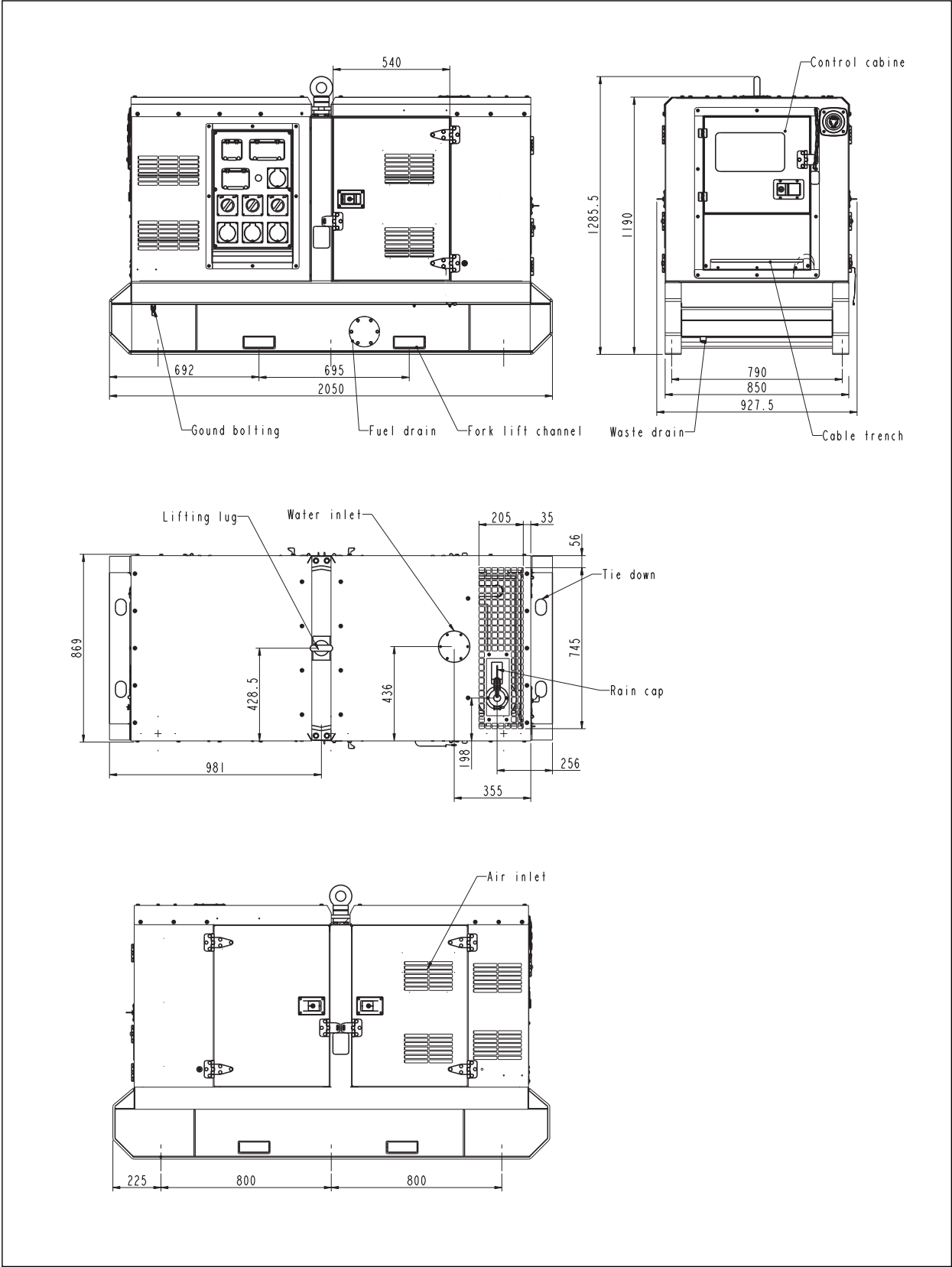


InteliLite4-AMF9 is Single Gen-set controller for stand-by and prime-power applications and all-in-one intuitive & powerful PC tool for configuration/monitoring/control, locally or remotely and easy to install, configure and use

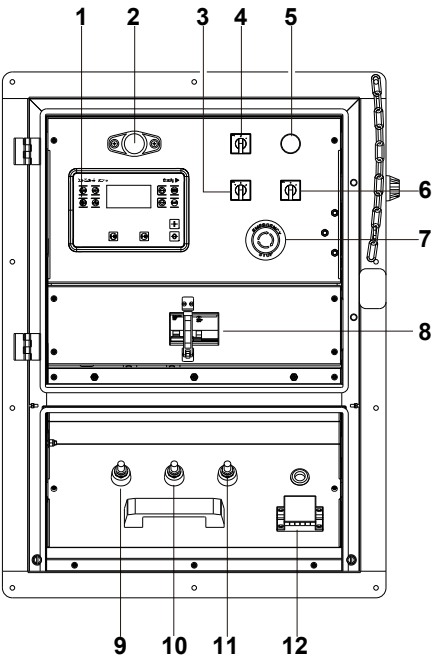
Standard Control Function

- 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

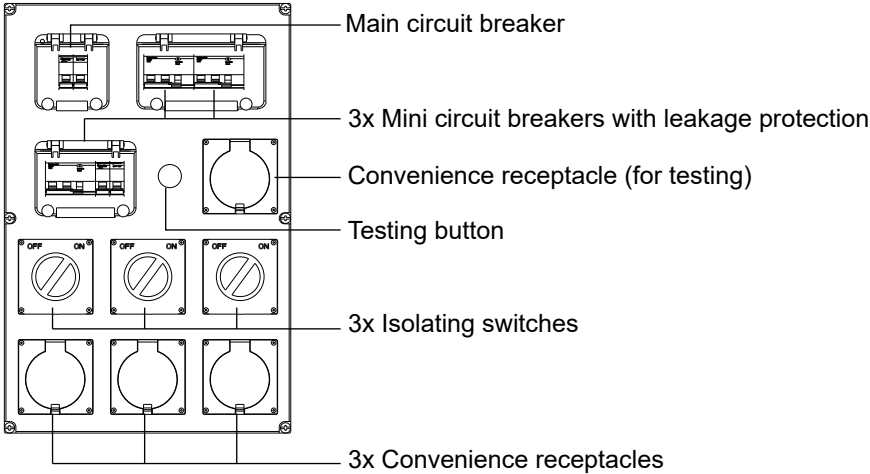


# 5 Control System



Control & field wiring cabinet

| Ref. | Description                     |
|------|---------------------------------|
| 1    | Control module                  |
| 2    | Panel light                     |
| 3    | Operation mode selection switch |
| 4    | Panel light switch              |
| 5    | Not ready indication            |
| 6    | Control power switch            |
| 7    | Emergency stop button           |
| 8    | Main circuit breaker            |
| 9    | Live wire terminal              |
| 10   | Neutral wire terminal           |
| 11   | Ground wire terminal            |
| 12   | Remote control/Mains input      |



Convenience receptacle box