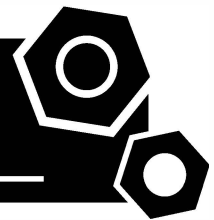


**Generator set**  
**Sound-proof type**  
**PR9K-S-SAE**

**SPECIFICATIONS**



[www.prpower.com](http://www.prpower.com) | 1300 399 499

PR Power reserves the right to make changes in model, technical specification, color, configuration and accessories without prior notice. Please contact the sales team before ordering.

Rev. [Feb].[2024]

## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- ISO8528-5:2005
- GB/T2820.5-2009
- AS 3000-2018
- AS 3010-2017

### Environmental Operating Conditions

- Installation place: Outdoors or indoors (well ventilated).
- Ambient temperature: -25°C to 50°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.

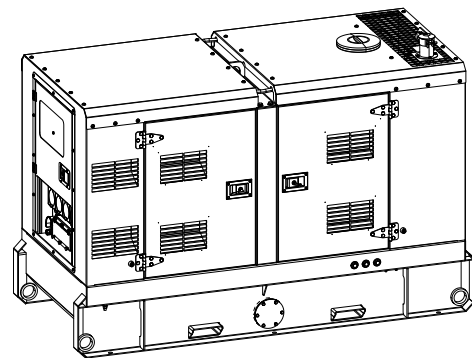
## 2 General Features

- Kubota engine D1105-BG
- Close coupled to LSA alternator LSA40S3
- Microprocessor control module PLC-920
- SCHNEIDER main circuit breaker: 63A
- Rotate speed governor: Mechanical governor
- Excitation System: Self excited
- A.V.R
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Convenience receptacles: 1P

- 1x12V/72AH sealed for life maintenance free battery
- 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 28 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

## 3 Equipment Specification

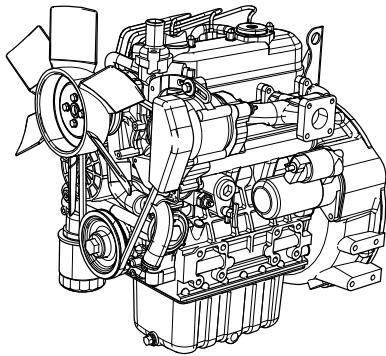
### General technical data



Model.....	PR9K-S-SAE
Structure type .....	RS
Tank capacity.....	100L
Dry weigh.....	700kg
Noise level @7m .....	64.7dBA
Dimensions L×W×H.....	1932x927x1308mm
Standby Power .....	11kVA/8.8kW
Prime Power.....	10kVA/8kW

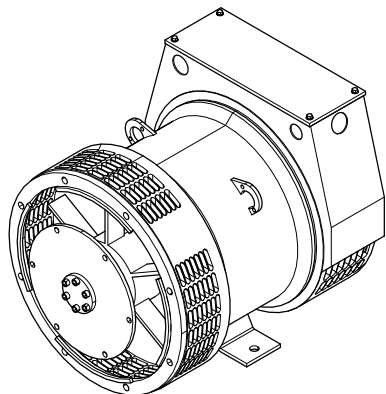
Voltage	220V	230V	240V		
Ampere	45.5A	43.5A	41.7A		
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	1.8	2.9	3.5	3.9

## Diesel engine



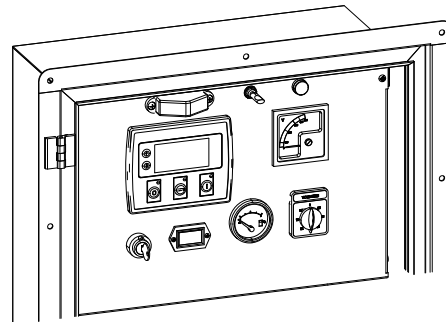
Engine Manufacturer/Brand.....	KUBOTA
Engine Model.....	D1105-BG
Dimensions L×W×H.....	549.3×398.0×604.7mm
Dry Weigh (approx.) .....	93kg
Number of Cylinders.....	3
Bore.....	78mm
Stroke.....	78.4mm
Displacement.....	1.123L
Compression Ratio.....	22
Type of Injection .....	Direct injection
Intake System.....	Natural aspirated
Intake Resistance.....	1.96kPa
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage.....	12V
Type of Fuel.....	No.2-D(ASTM D975)
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

## PLC-920 Control System

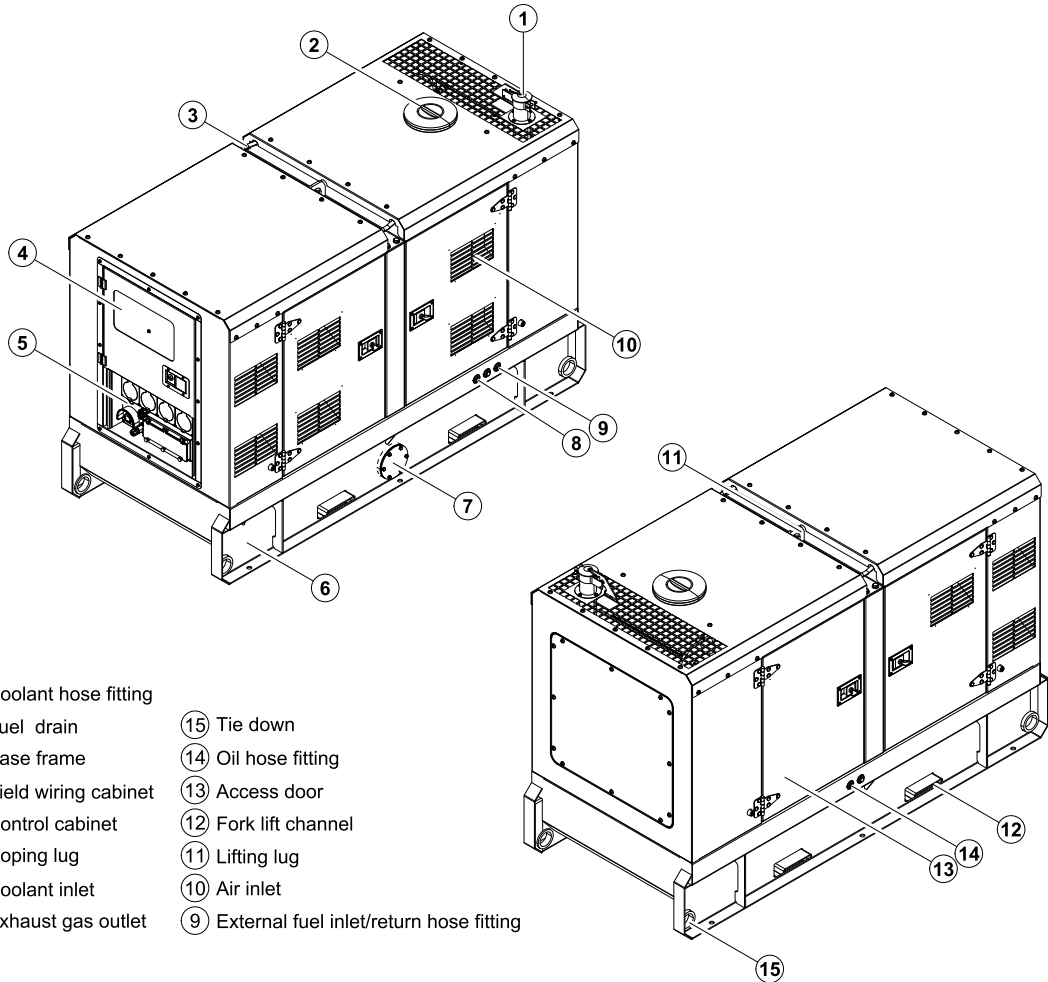


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure.

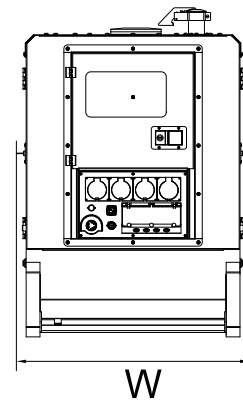
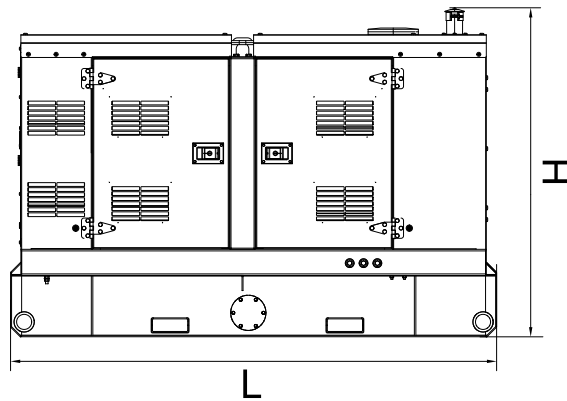
### Standard Control Function

- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection hold-off timer
- Charge Failure warning

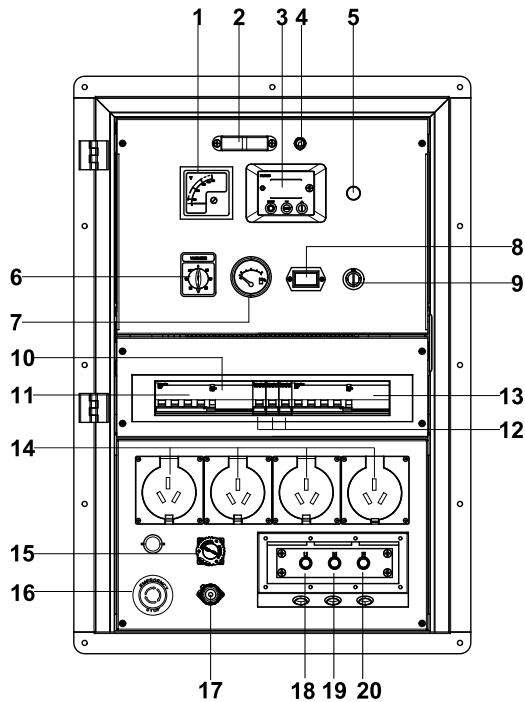
## 4 Overall Dimensions



- |                        |   |
|------------------------|---|
| ⑧ Coolant hose fitting | ⑮ Tie down                                |
| ⑦ Fuel drain           | ⑭ Oil hose fitting                        |
| ⑥ Base frame           | ⑬ Access door                             |
| ⑤ Field wiring cabinet | ⑫ Fork lift channel                       |
| ④ Control cabinet      | ⑪ Lifting lug                             |
| ③ Roping lug           | ⑩ Air inlet                               |
| ② Coolant inlet        | ⑨ External fuel inlet/return hose fitting |
| ① Exhaust gas outlet   |   |

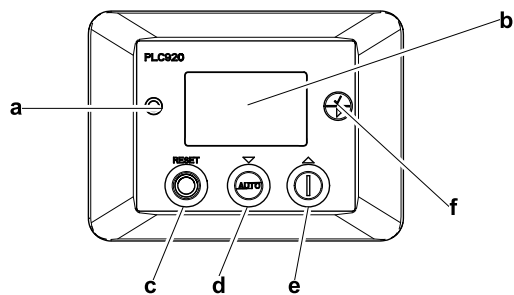


## 5 Control System



**Control & field wiring cabinet**

Ref.	Description
1	Voltage meter
2	Control cabinet lamp
3	Control module
4	Control cabinet lamp switch
5	Charge indicator
6	Voltmeter change-over switch
7	Fuel level meter
8	Time counter
9	Key switch
10	RCD.
11	Circuit breaker of three-phase convenience receptacle
12	Circuit breakers of single-phase convenience receptacle
13	Main circuit breaker
14	4x single-phase convenience receptacle
15	Remote control/ATS communication connector
16	Emergency stop switch
17	Mains input/Remote control communication connector
18	Live wire terminal
19	Neutral wire terminal
20	Ground wire terminal



**Control module**

Ref.	Description
a	Alarm indicator
b	Main status display
c	Stop/reset button; Next page (Configuration mode only)
d	Auto start button; Decrease value/next item (Configuration mode only)
e	Start button; Increase value/next item (Configuration mode only)
f	Navigation button; Accept (Configuration mode only)