

Generator set
Sound-proof type
GMS37KS-AU

SPECIFICATIONS



SK series

GMS37KS-AU

50 Hz @ 1500rpm,3-phase/5-wiring

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance European (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.

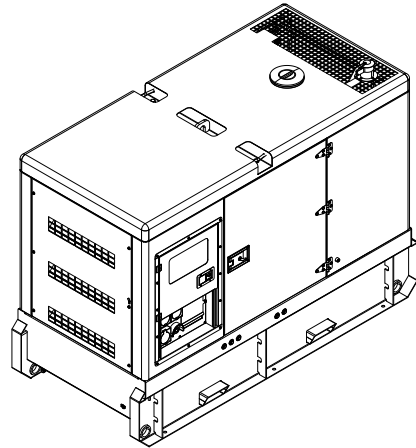
2 General Features

- Kubota engine V3300-T-E2BG2
- Close coupled to Leroy Somer alternator LSA42.3S5
- Microprocessor control module PLC-920
- Main circuit breaker: 63A
- Rotate speed governor:Electrical governor
- Excitation System: Self Excited,SHUNT
- A.V.R.Model: R220
- Key switch
- Emergency stop switch

- Convenience receptacle
- 1x12V/70AH 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 34 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

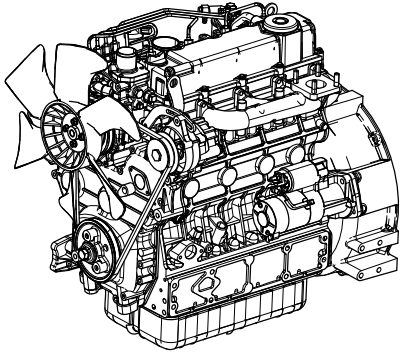
General technical data



Model.....	GMS37KS-AU
Structure type	R
Tank capacity.....	320L
Dry weight.....	1217kg
Noise level @7m	66dBA
Dimensions L×W×H.....	2300×1050×1682.5mm
Standby Power	41kVA/32kW
Prime Power	37kVA/30kW
Voltage/Ampere	415V/51.5A

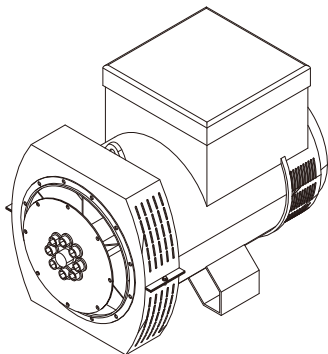
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	4.7	7.2	9.4	10.3

Diesel Engine



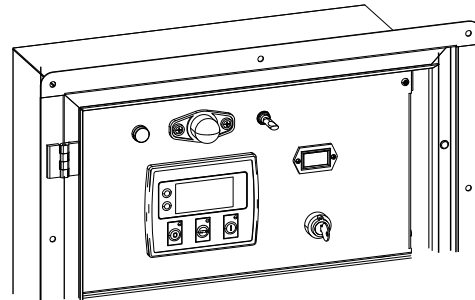
Engine Manufacturer/Brand.....	KUBOTA
Engine Model.....	V3300-T-E2BG2
Dimensions L×W×H.....	769.2×536×803.1mm
Dry Weigh (approx.)	250kg
Number of Cylinders.....	4
Bore.....	98mm
Stroke.....	110mm
Displacement.....	3.318L
Compression Ratio.....	21.8
Type of injection.....	N/A
Intake System.....	Natural aspirated
Intake Resistance.....	1.96kPa
Cooling System.....	Water cooled
Fan.....	Pusher
Battery Voltage.....	12V
Type of Fuel.....	Diesel Fuel No.2-D(ASTM D975)
Type of Oil.....	Class CF lubricating oil
Oil Capacity.....	13.2L
Type of Coolant.....	Glycol mixture
Coolant Capacity.....	N/A
Back Pressure.....	≤7.07kPa
Standby Power.....	35.3kW
Prime Power.....	32.1kW

Alternator



Alternator Manufacturer/Brand.....	Leroy Somer
Alternator Model.....	LSA42.3VS3
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.....	0.25m³/s(50Hz),0.3m³/s(60Hz)
Voltage Regulation.....	±0.5%
Total harmonic TGH / THC at no load < 2 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

PLC-920 Control System

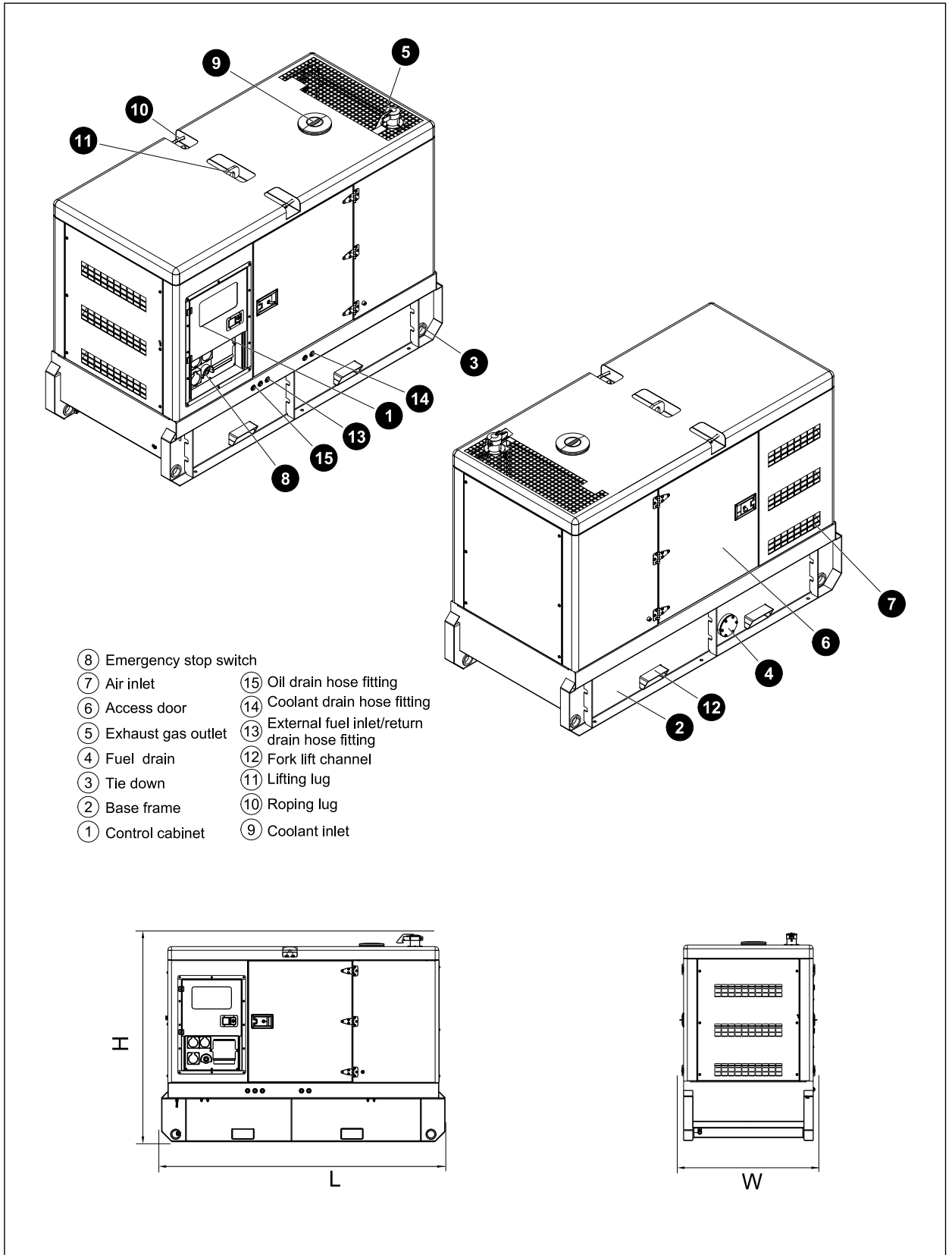


PLC-920 is an advanced control module based on micro-processor designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition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

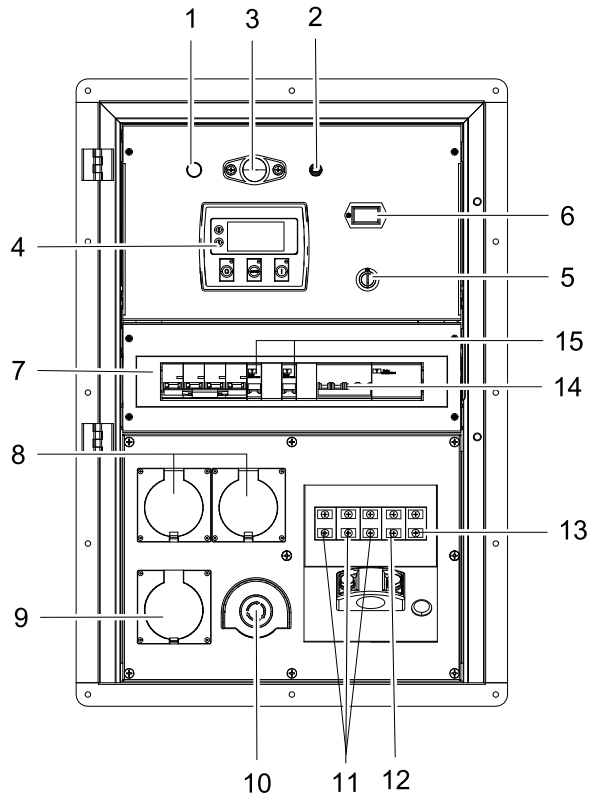
Standard Control Function

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

4 Overall Dimensions

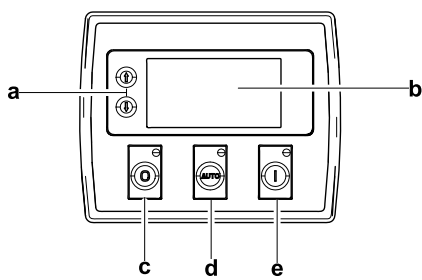


5 Control System



Control & field wiring cabinet

Ref.	Description
1	Charge indicator
2	Control cabinet lamp switch
3	Control cabinet lamp
4	Control module
5	Key switch
6	Time counter
7	Circuit breaker of 3 -phase convenience receptacle
8	2x 1-phase convenience receptacle
9	1x 3-phase convenience receptacle
10	Emergency stop button
11	Live wire terminal
12	Neutral wire terminal
13	Ground wire terminal
14	Main circuit breaker
15	Circuit breakers of 1-phase convenience receptacle



Control module

Ref.	Description
a	Navigation button; Accept (Configuration mode only)
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)