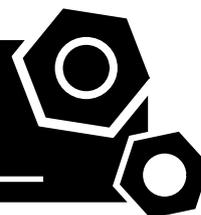


**Generator set**  
**Sound-proof type**  
**GMS15KS-AU**

# **SPECIFICATIONS**



## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- China Compulsory Certification (CCC)
- TLC Quality Certification (TLC)
- ISO8528-1995
- GB/T2820-1997
- AS 3000-1997
- AS 3010.1-1988

### 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.

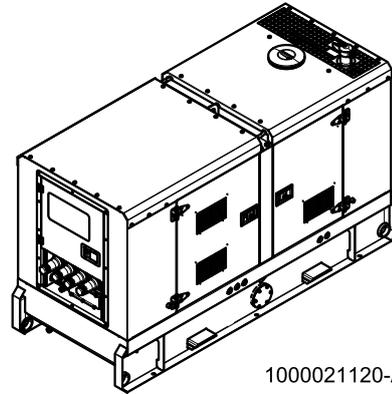
## 2 General Features

- Kubota engine D1703-BG
- Close coupled to a Stamford alternator PI144E
- Microprocessor control module PLC-702
- SCHNEIDER main circuit breaker: 4-Phase 25A
- SCHNEIDER RCD. 30mA/4P
- Rotate speed governor: Mechanical governor
- Excitation System: Self Excited SHUNT
- A.V.R. Model: AS480
- Key switch

- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Remote run connector
- 3x single-phase convenience receptacle
- 1x three-phase convenience receptacle
- 1x12V sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Non-returning valve for fuel inlet hose of the engine
- Steel base frame with forklifts
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 24 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation Manual / Specifications

## 3 Equipment Specification

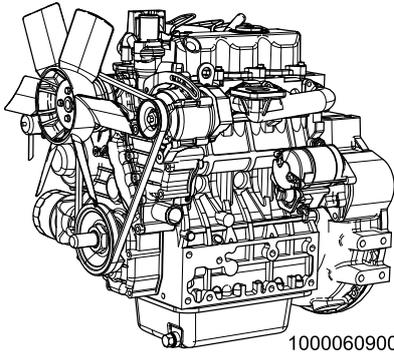
### General technical data



1000021120-AP1-B3

Model.....	GMS15KS-AU
Structure type .....	RS
Tank capacity.....	100L
Dry weigh.....	770kg
Noise level @7m .....	N/A
Dimensions L×W×H.....	1932x898x1303mm
Standby Power .....	17kVA/13kW
Prime Power.....	15kVA/12kW
Voltage/Ampere .....	415V/21A

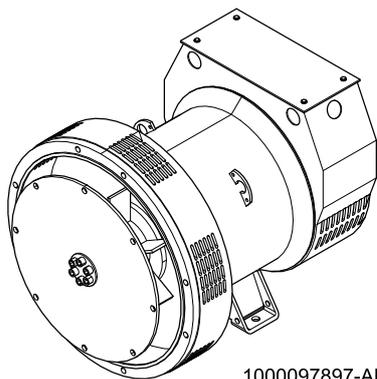
## Diesel engine



1000060900-AP1-A7

Engine Manufacturer/Brand.....	KUBOTA
Engine Model.....	D1703-BG
Dimensions L×W×H.....	608.4×548.3×642.8mm
Dry Weigh (approx.) .....	148kg
Number of Cylinders.....	3
Bore.....	87mm
Stroke.....	92.4mm
Displacement.....	1.647L
Compression Ratio.....	23
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.....	No.2-D(ASTMD975)
Type of Oil.....	Class CF lubricating oil
Oil Capacity.....	7.6L
Type of Coolant.....	Glycol mixture
Coolant Capacity.....	7.1L
Back Pressure.....	≤7.07kPa
Standby Power.....	15.1kW
Continuous Power.....	12.8kW
Fuel Consumption(100%load).....	219g/kW.h

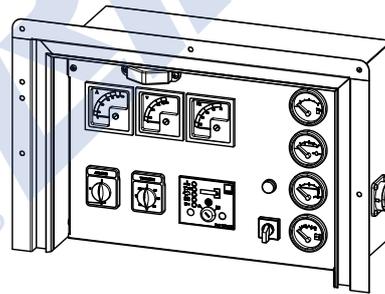
## Alternator



1000097897-AP1-A1

Alternator Manufacturer/Brand.....	Stamford
Alternator Model.....	PI144E
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.....	0.100 m³/sec(50Hz),0.122 m³/sec(60Hz)
Voltage Regulation.....	± 1.0 %
Total harmonic TGH / THC.....	at no load < 1.5% - on load < 5.0%
Telephone Interference.....	THF<2%;TIF<50

## PLC-702 Control System



1000103996-AP1-A1

PLC-702 key manual start module is a manual engine control module 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.

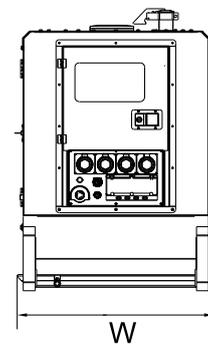
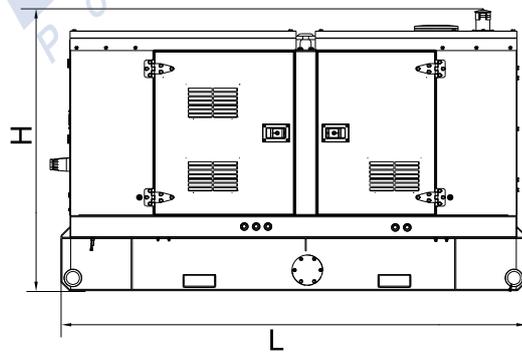
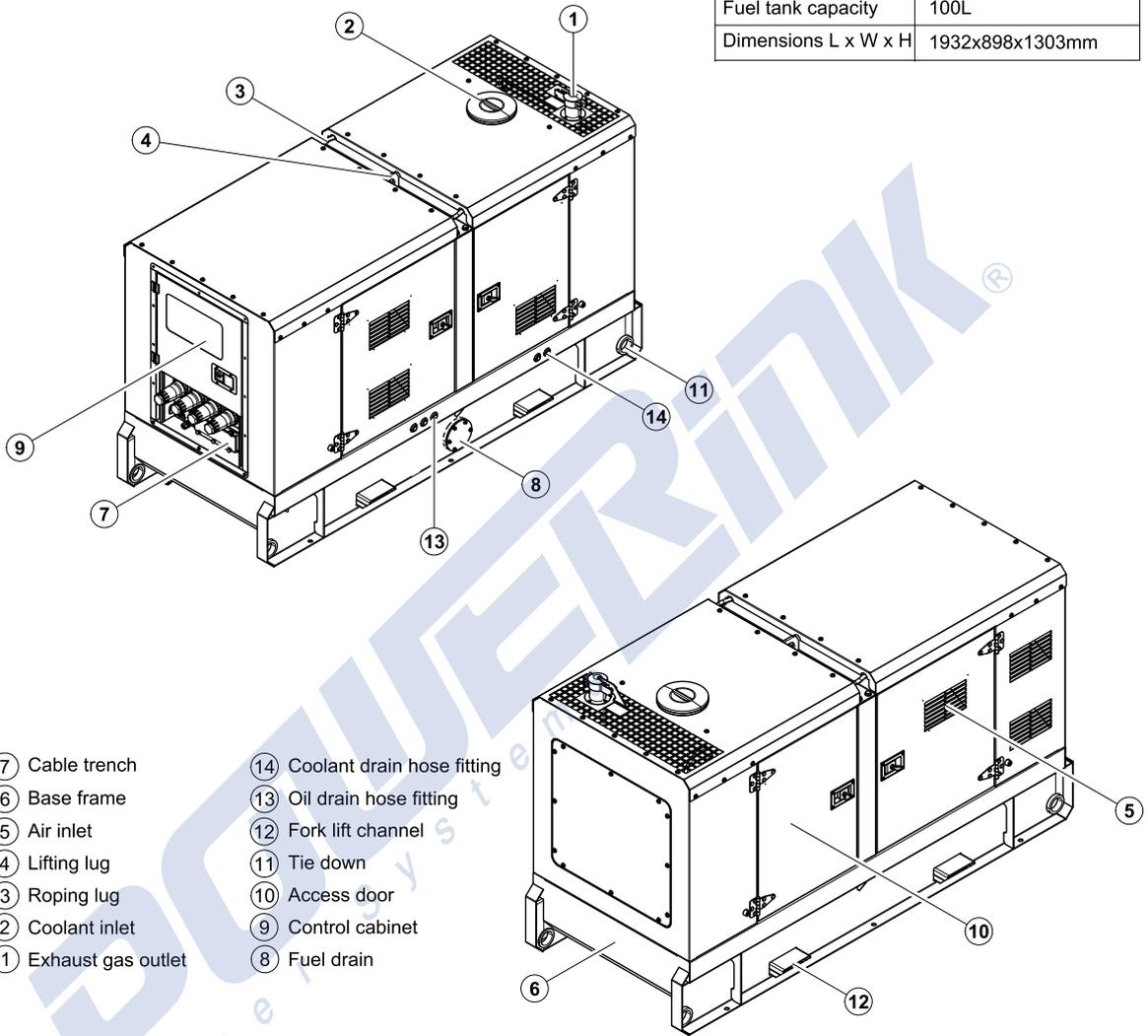
### Standard Control Function

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

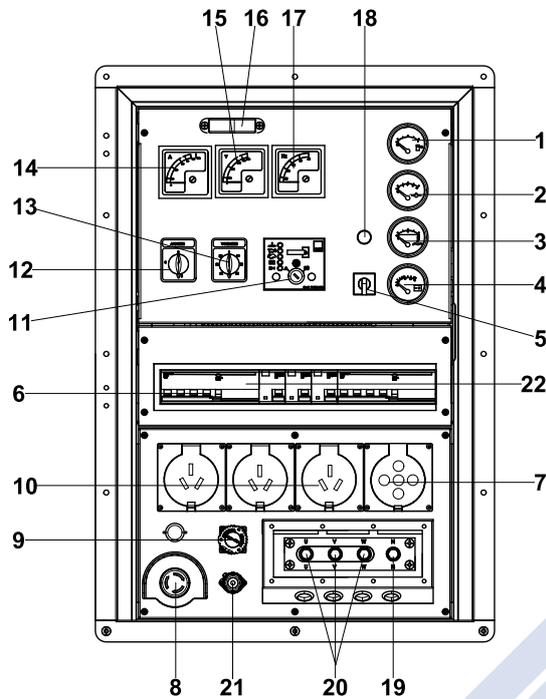
## 4 Overall Dimensions

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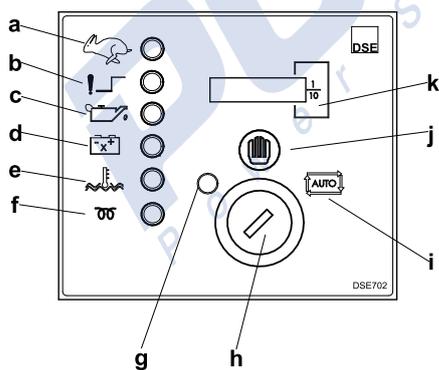
Dry weight	770Kg
Fuel tank capacity	100L
Dimensions L x W x H	1932x898x1303mm



## 5 Control System



**Control & field wiring cabinet**



**Control Panel**

Ref.	Description
1	Fuel level meter
2	Oil pressure meter
3	Water temperature meter
4	Battery voltage meter
5	Control panel lamp switch
6	Main circuit breaker
7	1x three-phase convenience receptacle
8	Emergency stop switch
9	ATS connector
10	3x single-phase convenience receptacle
11	PLC-702 control module
12	Ammeter change-over switch
13	Voltmeter change-over switch
14	Current meter
15	Voltage meter
16	Control panel lamp
17	Frequency meter
18	Charge indicator
19	Neutral wire terminal
20	Live wire terminals
21	Remote run connector
22	RCD.

a	Over speed protection LED
b	Fail to start LED
c	Low oil pressure protection LED
d	Charge failure warning LED
e	High engine temperature protection LED
f	Pre-heat LED
g	Stop model position
h	Control module key switch
i	Auto start position
j	Manual start button
k	Time counter

100021120-B3-E
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09.2011
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Power Systems

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