

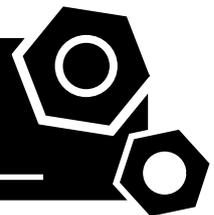
**Generator set**

**Sound-proof type**

**GMS30KS-AU**

**SPECIFICATIONS**

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**RK series**  
**GMS30KS-AU**  
 50 Hz @ 1500rpm,3-phase/4-wiring

**1 Standards & Conditions**

**Design Standards**

The designs and the productions are in conformity with:

- Conformance European (CE)
- China Compulsory Certification (CCC)
- ISO8528-5:2005
- GB/T2820.5-2009
- AS 3000-1997
- AS 3010.1-1988

**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.

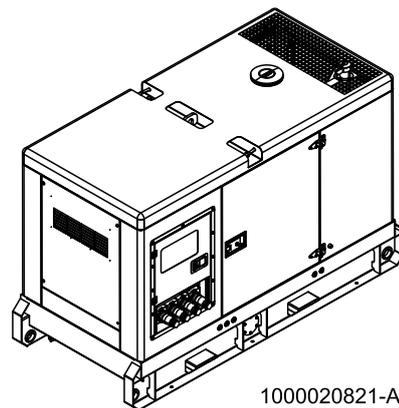
**2 General Features**

- Kubota engine V3300-BG
- Close coupled to a Stamford alternator UCI224D
- Microprocessor control module PLC-702
- SCHENIDER main circuit breaker: 3-Phase 63A
- Rotate speed governor: Mechanical governor
- Excitation System: Self Excited SHUNT
- A.V.R.Model: AS440
- 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**

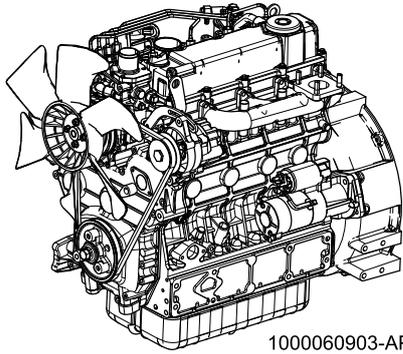


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Model.....GMS30KS-AU  
 Structure type ..... R  
 Tank capacity..... 180L  
 Dry weight..... 1291.2kg  
 Noise level @7m ..... N/A  
 Dimensions L×W×H..... 2338x1050x1553mm  
 Standby Power ..... 32kVA/26kW  
 Prime Power ..... 30kVA/24kW  
 Voltage/Ampere ..... 415V/42A

Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	3.5	5.1	7.0	8.1

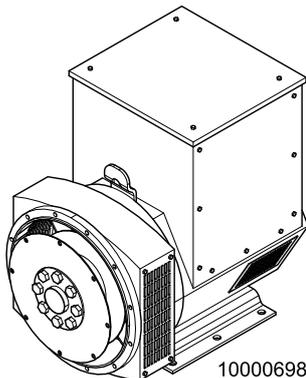
## Diesel engine



1000060903-AP1-A5

Engine Manufacturer/Brand.....	KUBOTA
Engine Model.....	V3300-BG
Dimensions L×W×H.....	769.2×536×751mm
Dry Weigh (approx.) .....	241kg
Number of Cylinders.....	4
Bore.....	98mm
Stroke.....	110mm
Displacement.....	3.318L
Compression Ratio.....	22.6
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.....	28.9kW
Continuous Power.....	26.3kW
Fuel Consumption(100%load).....	7L/h

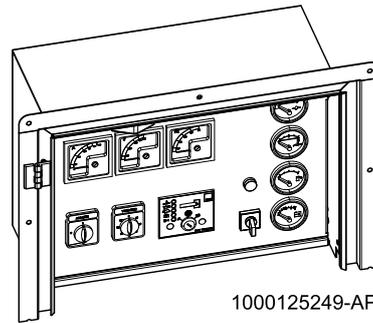
## Alternator



1000069849-AP1-A1

Alternator Manufacturer/Brand.....	Stamford
Alternator Model.....	UC1224D
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.....	0.216 m³/sec(50Hz),0.281 m³/sec(60Hz)
Voltage Regulation.....	±1.0%
Total Harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

## PLC-702 Control System



1000125249-AP1-D2

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.

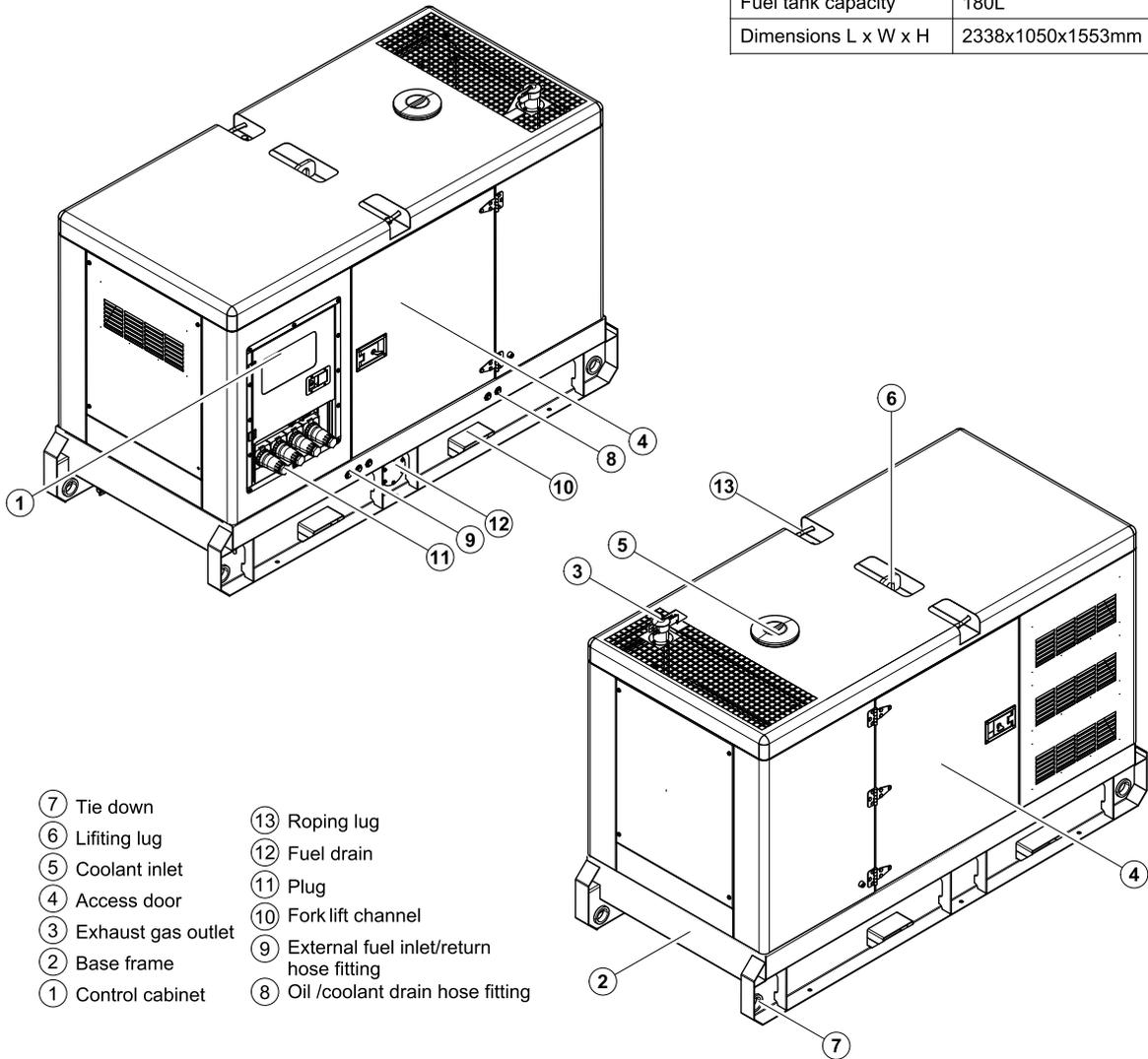
### Standard Control Function

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

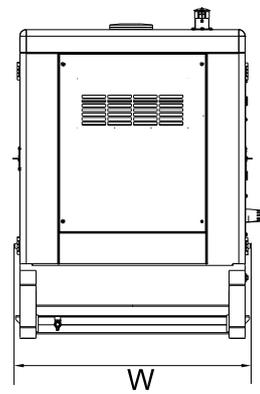
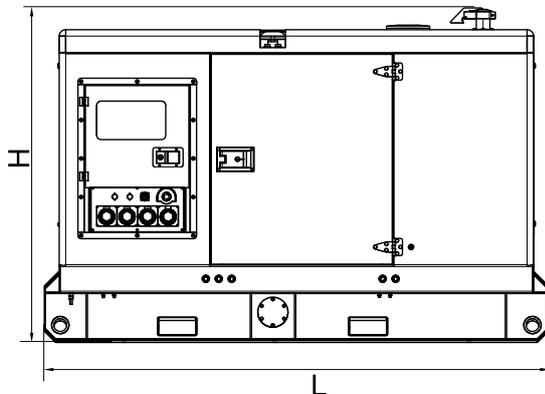
## 4 Overall Dimensions

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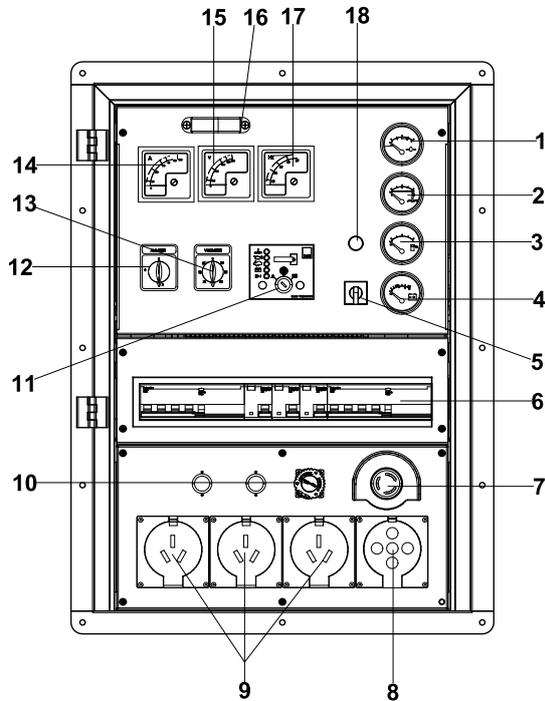
Dry weight	1291.2kg
Fuel tank capacity	180L
Dimensions L x W x H	2338x1050x1553mm



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

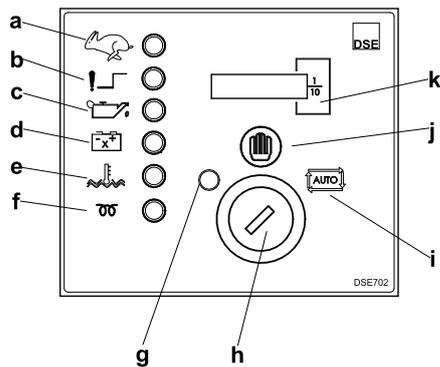


## 5 Control System



**Control & field wiring cabinet**

Ref.	Description
1	Oil pressure meter
2	Water temperature meter
3	Fuel level meter
4	Battery voltage meter
5	Control panel lamp switch
6	Main circuit breaker
7	Emergency stop switch
8	Three-phase convenience receptacle
9	Single-phase convenience receptacle
10	ATS connector
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



**Control panel**

a	Over speed protection LED
b	Alarm 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

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12.2011
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