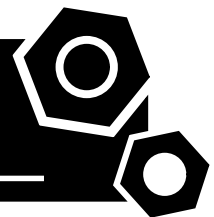


**Generator set**

**Sound-proof type**

**GMS30KS**

**SPECIFICATIONS**



**SK series**  
**GMS30KS**  
 50 Hz @ 1500rpm,3-phase/5-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

### 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.

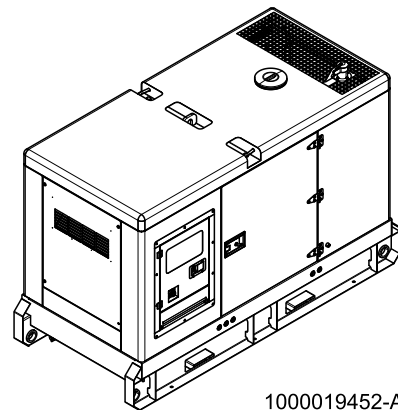
## 2 General Features

- KUBOTA engine V3300-BG
- Close coupled to a Stamford alternator PI144G
- Microprocessor control module PLC-7420
- SCHNEIDER main circuit breaker: 63A
- 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
- 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 forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 20 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

## 3 Equipment Specification

### General technical data

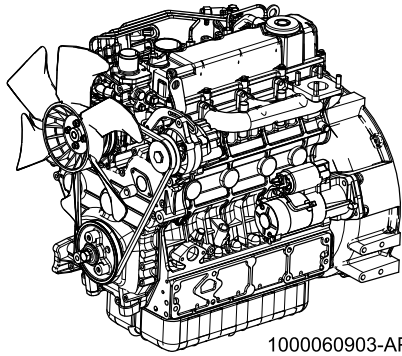


1000019452-AP1-F2

Model.....GMS30KS  
 Structure type ..... R  
 Tank capacity..... 148L  
 Dry weight..... 1203kg  
 Noise level @7m ..... N/A  
 Dimensions L×W×H..... 2338x1080x1553mm  
 Standby Power ..... 32.3kVA/25.8kW  
 Prime Power ..... 30kVA/24kW

Voltage	380V	400V	415V	440V	
Ampere	45.6A	43.3A	41.7A	39.4A	
<b>Genset Fuel Consumption</b>					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	3.5	5.1	7.0	8.1

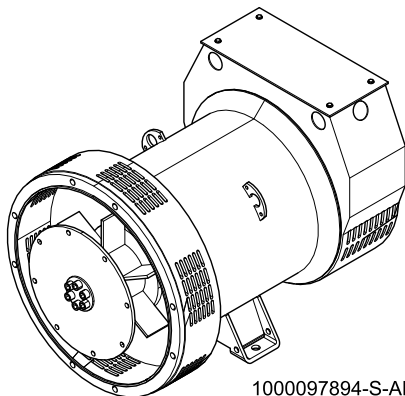
## Diesel engine



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
Prime Power.....	26.3kW
Fuel Consumption(100%load).....	7L/h

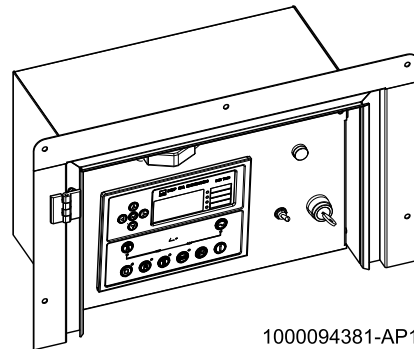
## Alternator



1000097894-S-AP1-A1

Alternator Manufacturer/Brand.....	Stamford
Alternator Model.....	PI144G
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 / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

## PLC-7420 Control System



1000094381-AP1-C1

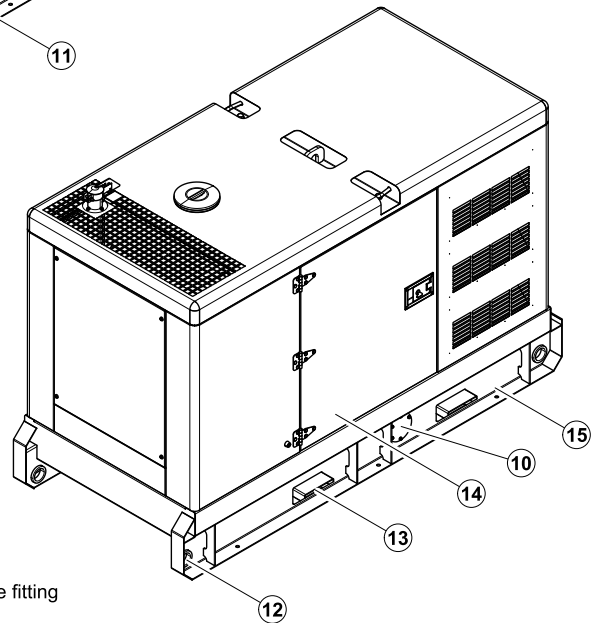
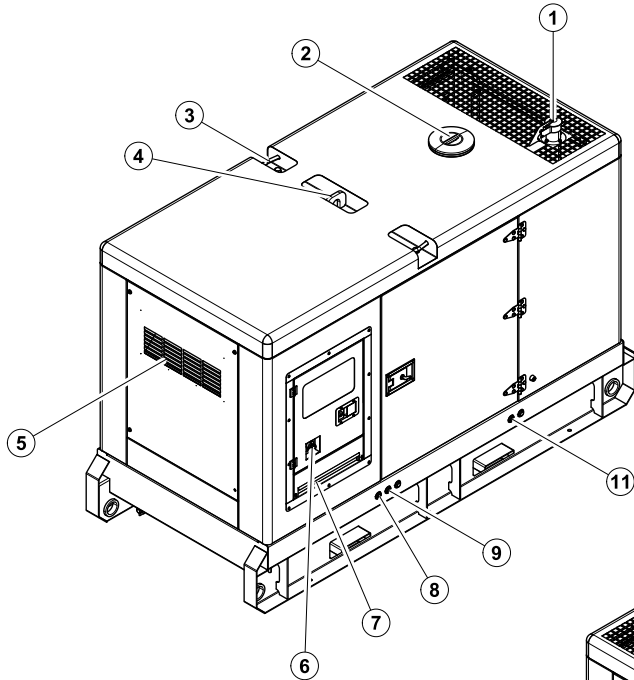
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and display all values and alarms information on the LCD. In addition, the control module can automatically shut down the engine and indicate the engine failure.

- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and remote work mode selectable
- Real time clock for time and date display, overall runtime display, 250 log entries
- Overall power output display
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed etc.
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol

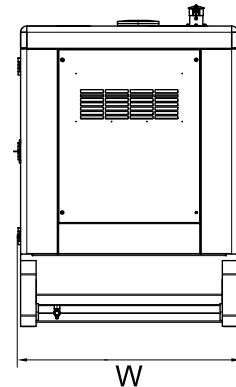
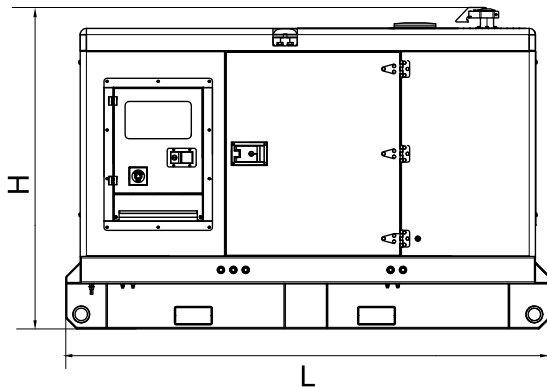
## 4 Overall Dimensions

1000019452-DR1-F2

Dry weight	1203kg
Fuel tank capacity	148L
Dimensions L x W x H	2338x1080x1553mm



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

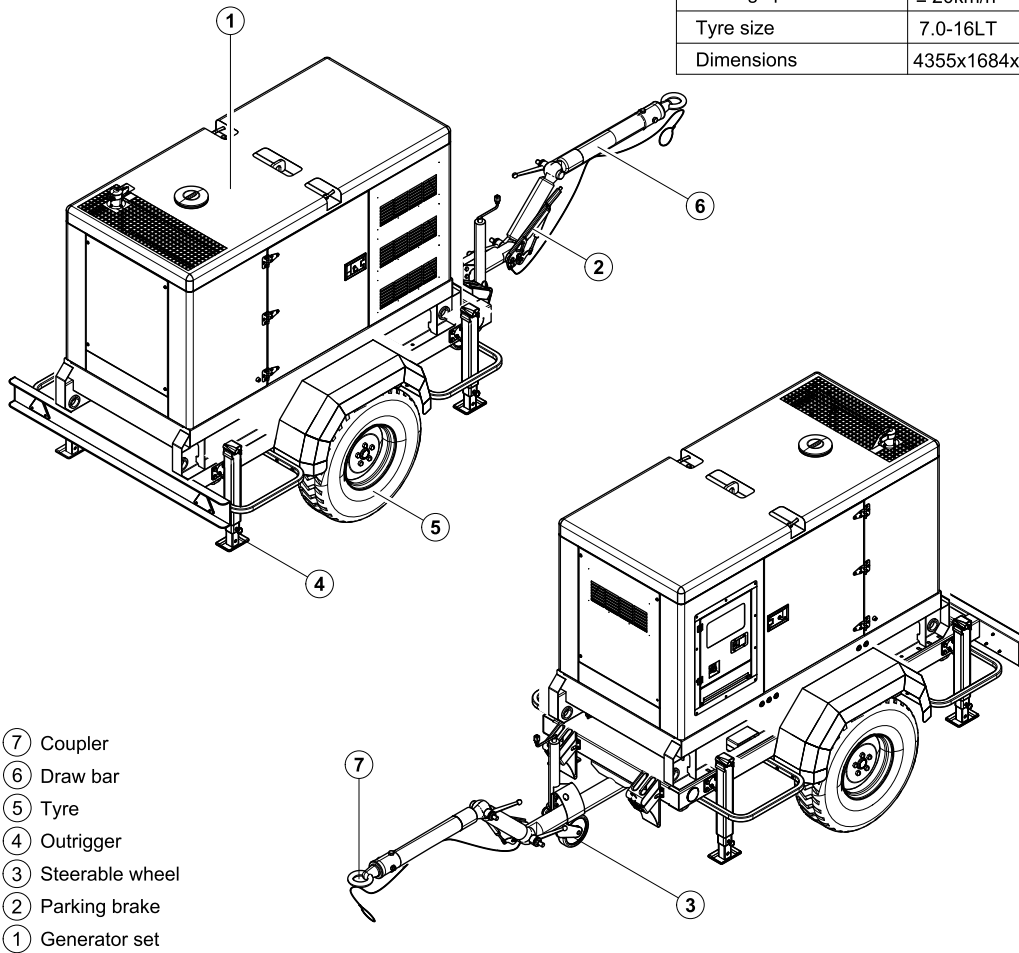


## 5 Trailer (Option)

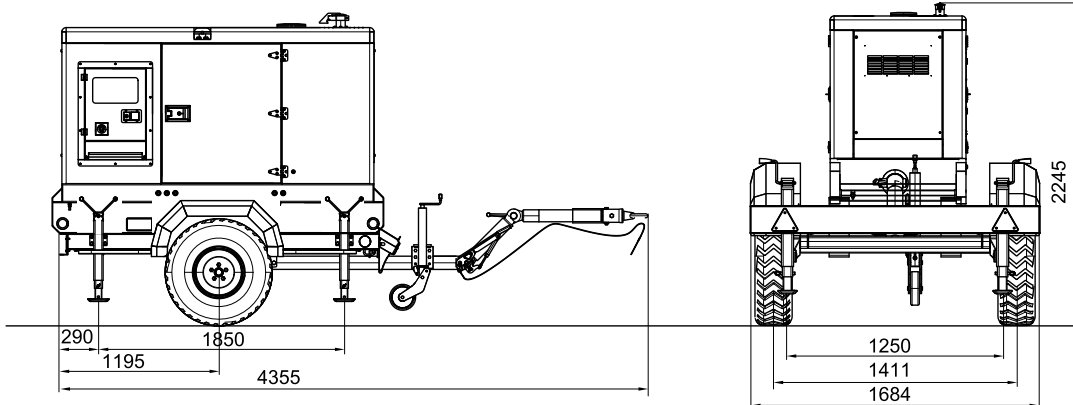
1000019452-DR3-F2

**! NON-HIGHWAY TYPE**

Dry weight (with trailer)	1596kg
Towing speed	≤ 20km/h
Tyre size	7.0-16LT
Dimensions	4355x1684x2245mm



- ⑦ Coupler
- ⑥ Draw bar
- ⑤ Tyre
- ④ Outrigger
- ③ Steerable wheel
- ② Parking brake
- ① Generator set

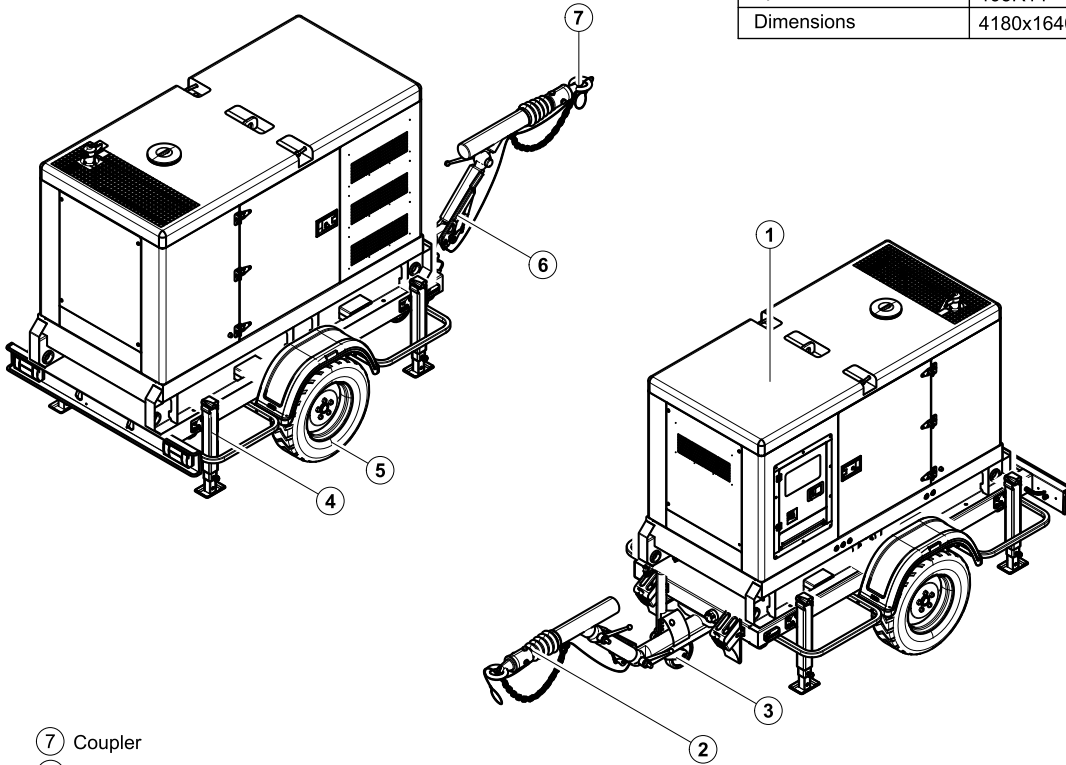


## 6 Trailer (Option)

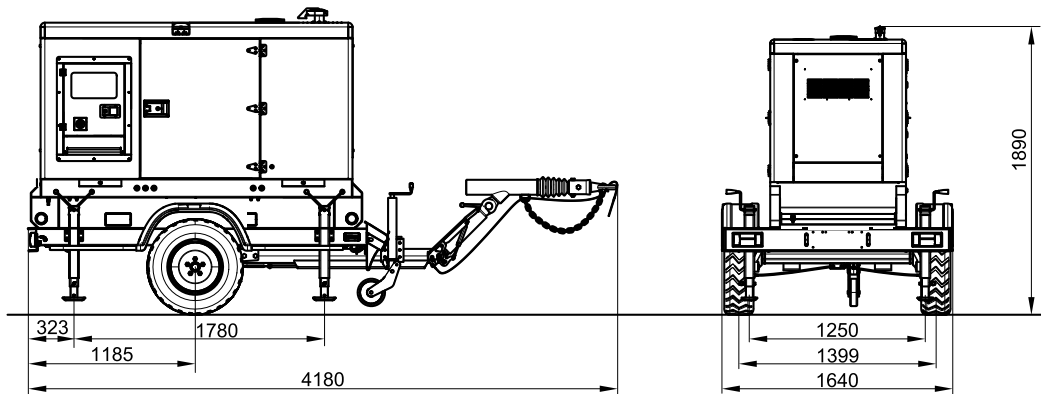
1000019452-DR5-F2

 **HIGHWAY TYPE**

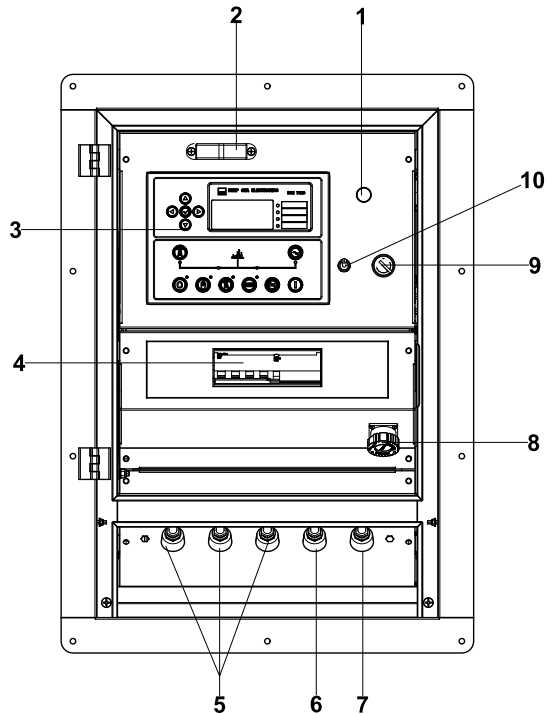
Dry weight (with trailer)	1609.4kg
Towing speed	≤ 80km/h
Tyre size	195R14
Dimensions	4180x1640x1890mm



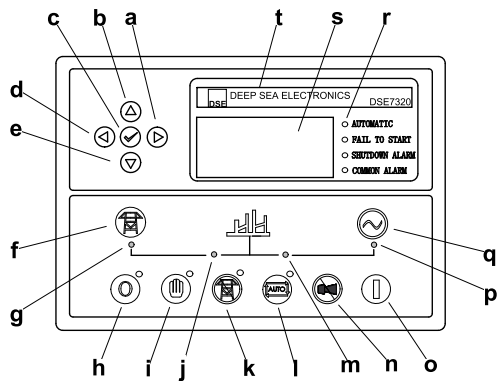
- ⑦ Coupler
- ⑥ Parking brake
- ⑤ Tyre
- ④ Outrigger
- ③ Steerable wheel
- ② Draw bar with service brake
- ① Generator set



## 7 Control System



**Control & field wiring cabinet**



**Control Module**

Ref.	Description
1	Charge indicator
2	Control cabinet lamp
3	Control module
4	Main circuit breaker
5	Live wire terminals
6	Neutral wire terminal
7	Ground wire terminal
8	Mains input/Remote/AMF/ATS/ Communication connector
9	Key switch
10	Control cabinet lamp switch

a	Button (next page)
b	Button (increase value / previous item)
c	Button (accept)
d	Button (previous page)
e	Button (decrease value / next item)
f	Button (transfer the load to the mains supply, when in Manual mode only)
g	Mains supply available LED
h	Stop / Reset button
i	Manual button (Manual control mode)
j	Mains supply on load LED
k	Test button (Test mode)
l	Auto button (Auto mode)
m	Genset on load LED
n	Mute/Lamp test button
o	Start button (Manual)
p	Genset available LED
q	Button (transfer the load to the genset, when in Manual mode only)
r	Alarm LED (4 alarm items)
s	LCD display
t	Control module name