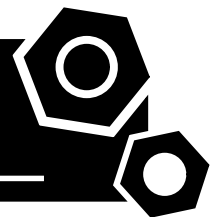


Generator set

Sound-proof type

GMS10KS

SPECIFICATIONS



RK series
GMS10KS
 50 Hz @ 1500rpm,3-phase/4-wiring

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Europeenne (CE)
- China Compulsory Certification (CCC)
- ISO8528-1995
- GB/T2820-1997

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 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.

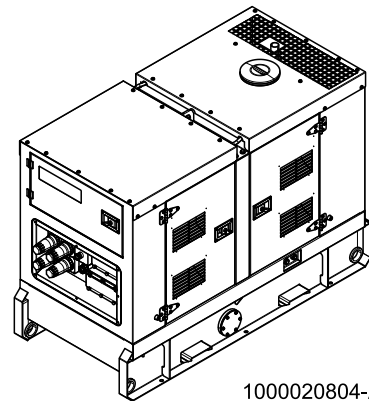
2 General Features

- Kubota engine D1105-BG
- Close coupled to a Stamford alternator PI044H
- Microprocessor control module PLC-702
- ABB main circuit breaker: 3-Phase 16A
- Rotate speed governor: Mechanical governor
- Excitation System: Self excited
- A.V.R.Model: AS480
- Key switch
- Emergency stop switch
- Mains input/ remote communication connector

- 1x12V sealed for life maintenance free battery
- 3x single-phase convenience receptacle
- 1x three-phase convenience receptacle
- 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 40 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

General technical data

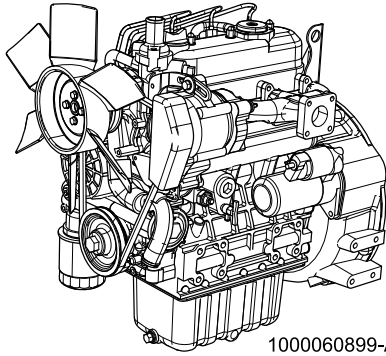


1000020804-AP1-B3

Model.....GMS10KS
 Structure typeRS
 Tank capacity 100L
 Dry weigh..... 652.8kg
 Noise level @7m N/A
 Dimensions L×W×H..... 1732x807x1227mm
 Standby Power 11kVA/8.8kW
 Prime Power 10kVA/8kW

Voltage	380V	400V	415V	440V
Ampere	15.2A	14.4A	13.9A	13.1A

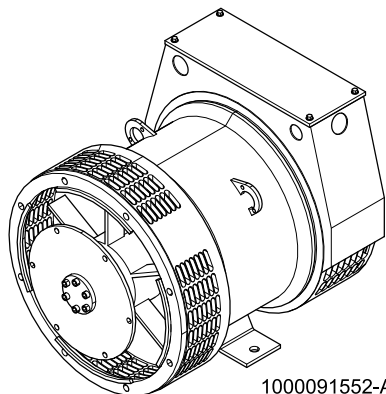
Diesel engine



1000060899-AP1-A5

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.....	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(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
Continuous Power	8.4kW
Fuel Consumption(100%load).....	220g/kW.h

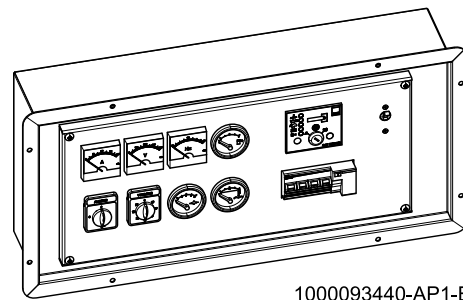
Alternator



1000091552-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	PI044H
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.....	0.11 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-702 Control System



1000093440-AP1-B2

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.

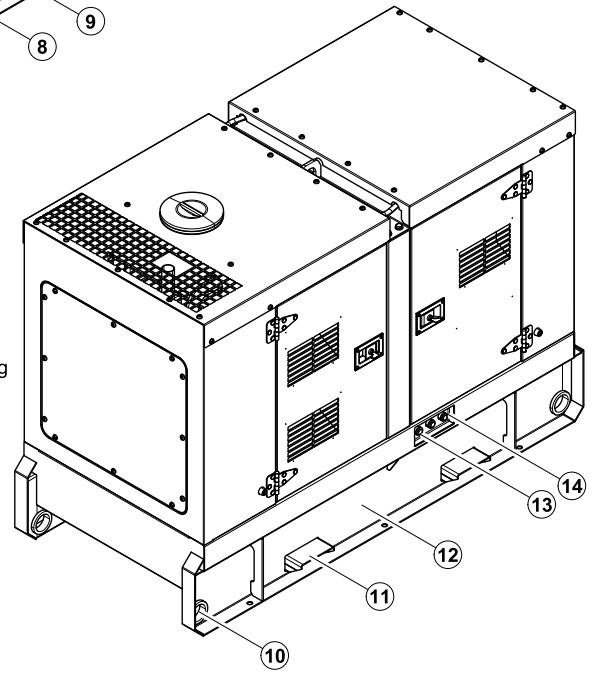
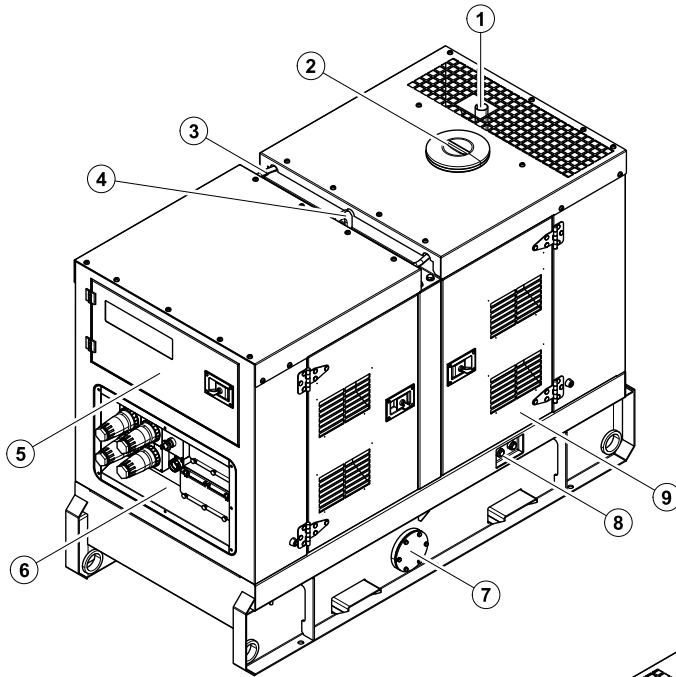
Standard Control Function

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

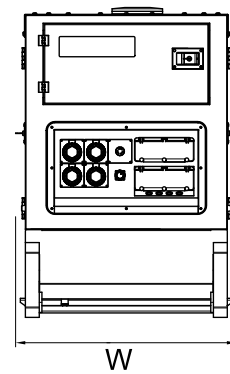
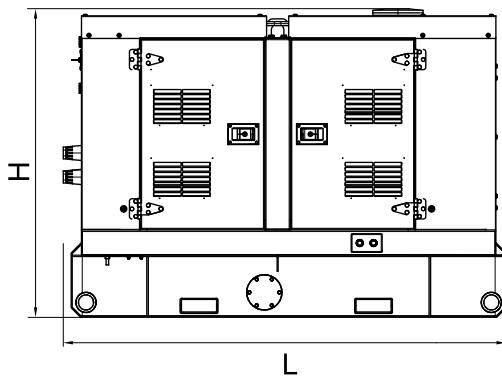
4 Overall Dimensions

1000020804-DR1-A3

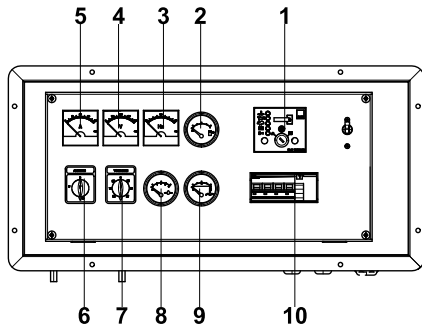
Dry weight	652.8kg
Fuel tank capacity	100L
Dimensions L x W x H	1732x807x1227mm



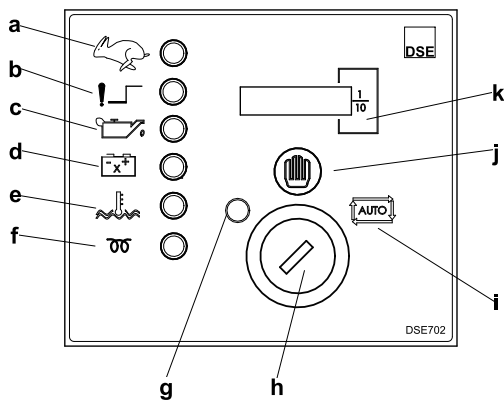
- ⑦ Fuel drain
- ⑥ Field wiring cabinet
- ⑤ Control cabinet
- ④ Lifting lug
- ③ Roping lug
- ② Coolant inlet
- ① Exhaust gas outlet
- ⑭ External fuel inlet/return hose fitting
- ⑬ Oil drain hose fitting
- ⑫ Base frame
- ⑪ Fork lift channel
- ⑩ Tie down
- ⑨ Access door
- ⑧ Coolant drain hose fitting



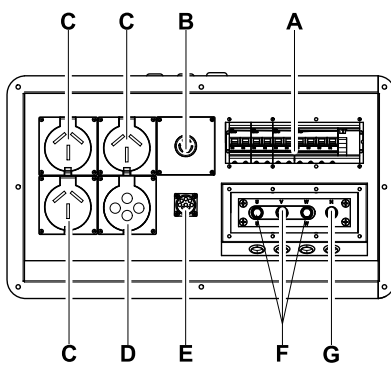
5 Control System



Control cabinet



Control panel



Field wiring cabinet

Ref.	Description
1	Control module
2	Fuel level meter
3	Frequency meter
4	Voltage meter
5	Current meter
6	Ammeter change-over switch
7	Voltmeter change-over switch
8	Oil pressure meter
9	Water temperature meter
10	Main circuit breaker

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

A	Breaker
B	Emergency stop switch
C	Single-phase convenience receptacle
D	Three-phase convenience receptacle
E	Mains input/remote communication connector
F	Live wire terminals
G	Neutral wire terminal

