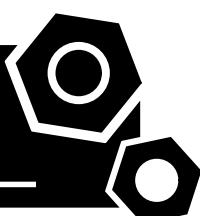


Generator set
Sound-proof type
GMS20KS-AU

SPECIFICATIONS



RK series
GMS20KS-AU
50 Hz @ 1500rpm,3-phase/4-wiring

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (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.

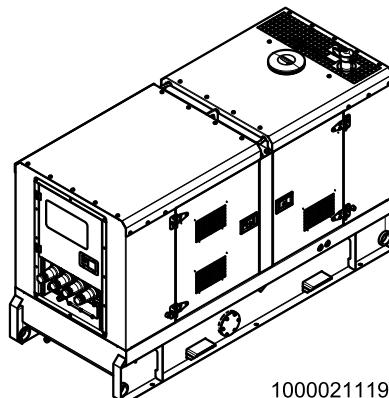
2 General Features

- Kubota engine V2203-BG
- Close coupled to a Stamford alternator PI144H
- Microprocessor control module PLC-702
- SCHENIDER main circuit breaker: 4-Phase 32A
- SCHNEIDER RCD. 30mA/4P
- Rotate speed governor: Mechanical governor
- Excitation System: Self ExcitedSHUNT
- 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 forkslots
- 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

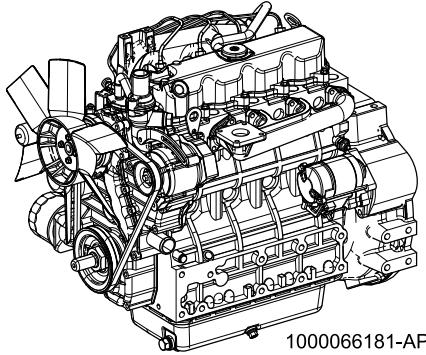
General technical data



1000021119-AP1-C2

Model.....	GMS20KS-AU
Structure type	RS
Tank capacity.....	100L
Dry weigh.....	856kg
Noise level @7m	N/A
Dimensions L×W×H.....	2050x898x1303mm
Standby Power	22kVA/18kW
Prime Power	20kVA/16kW
Voltage/Ampere	415V/28A

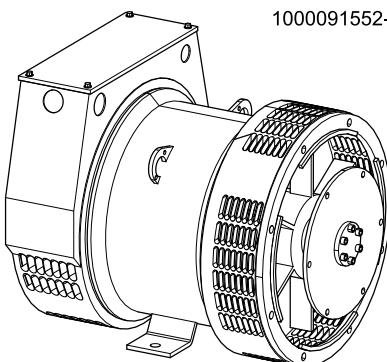
Diesel engine



1000066181-AP1-A7

Engine Manufacturer/Brand.....	KUBOTA
Engine Model.....	V2203-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	18.1kW
Continuous Power	15.0kW
Fuel Consumption(100%load).....	219g/kW.h

Alternator

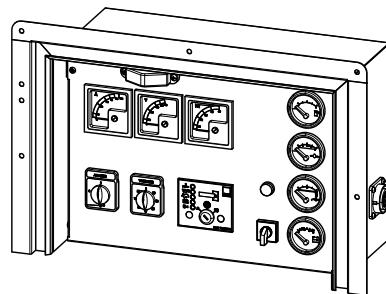


1000091552-AP1-A1

Alternator Manufacturer/Brand Stamford

Alternator Model	PI144H
Exciter.....	Brushless
Cooling Fan	Plastic
Windings	100% copper
Insulation Class	H
Winding Pitch.....	2/3
Terminals	12
Drip Proof	IP23
Altitude.....	≤1000m
Overspeed	2250rpm
Air Flow.....	0.135m³/s(50HZ),0.165m³/s(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



1000103997-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.

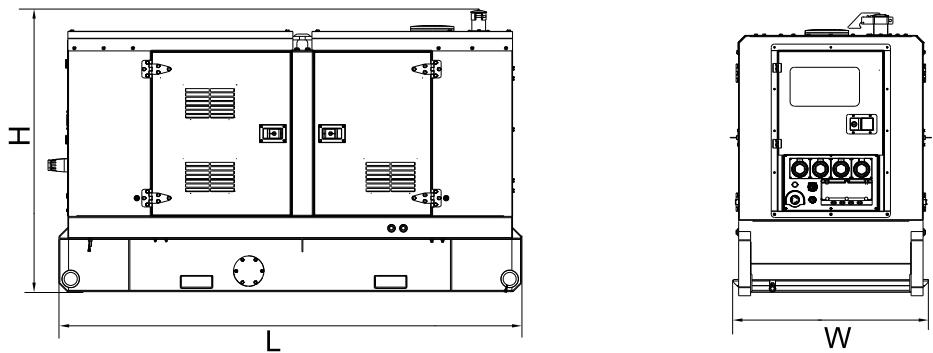
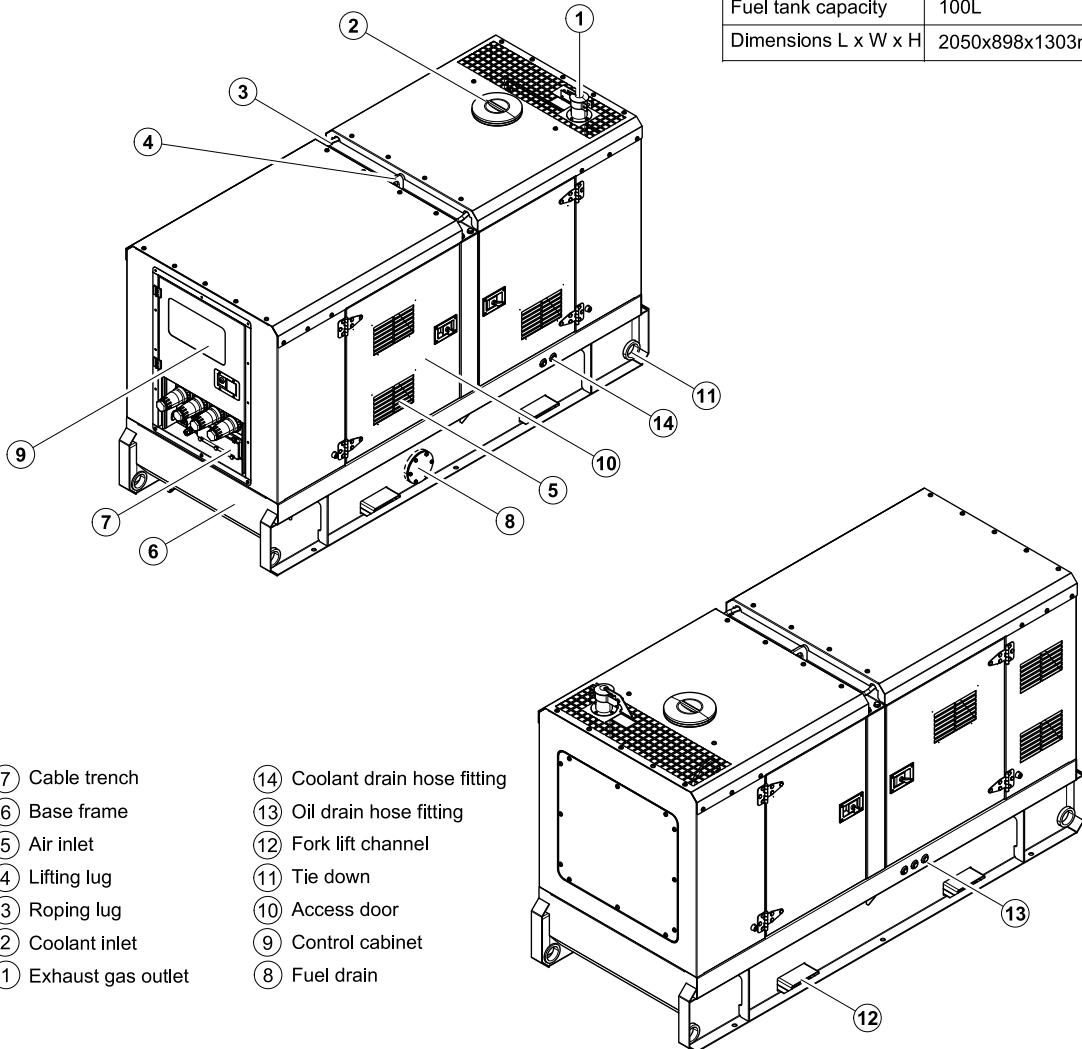
Standard Control Function

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

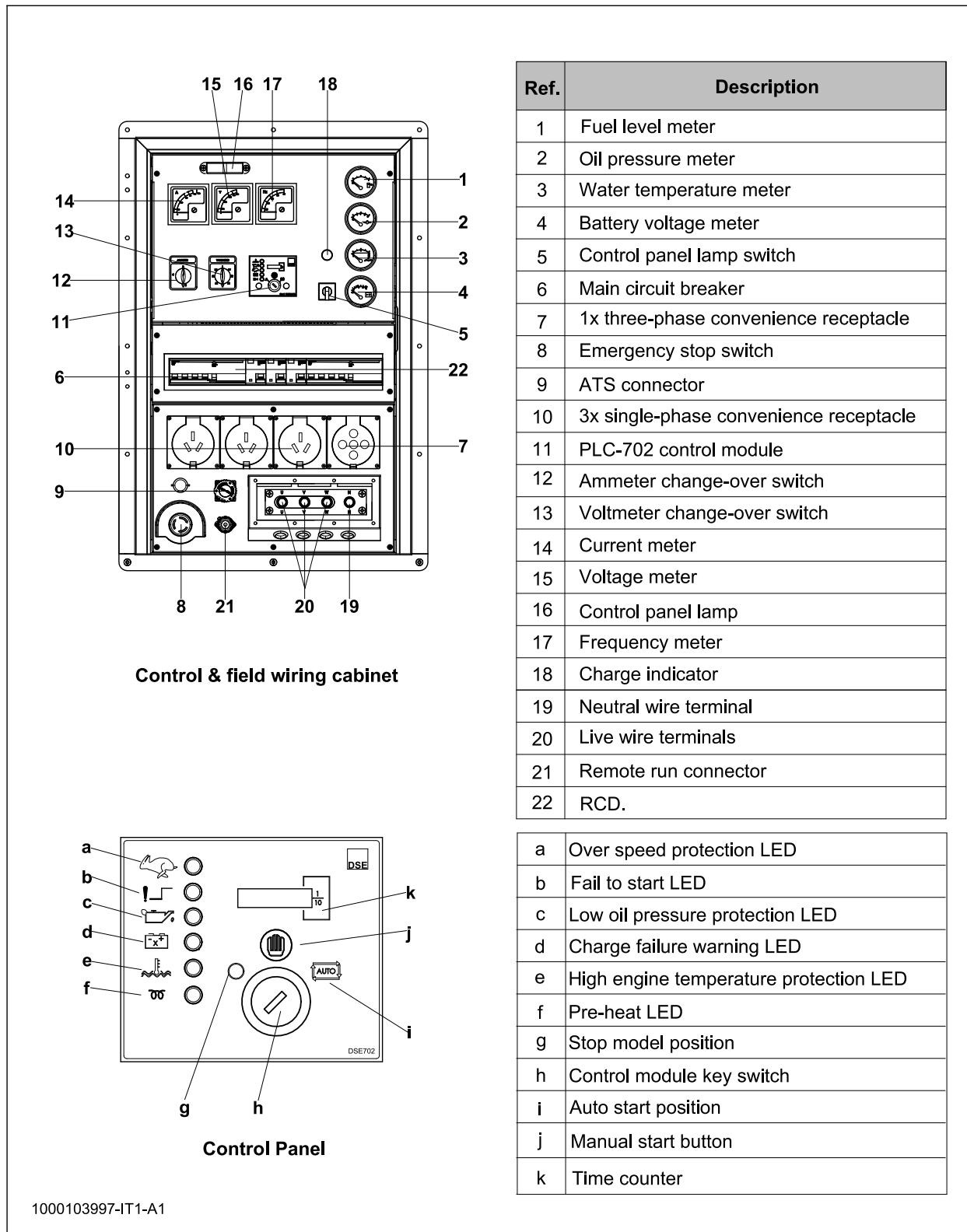
4 Overall Dimensions

1000021119-DR1-C2

Dry weight	856Kg
Fuel tank capacity	100L
Dimensions L x W x H	2050x898x1303mm



5 Control System



1000021119-C2-E

09.2011