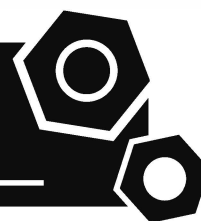


**Generator set**  
**Sound-proof type**  
**A10KS-T3**

# **SPECIFICATIONS**



# T3 series A10KS-T3,Tire 4



60 Hz @ 1800rpm,3-phase/5-wiring

## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- ISO8528-5:2005
- GB/T2820.5-2009

Electrical devices have obtained the certification of:

- CSA
- UL

### 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 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.

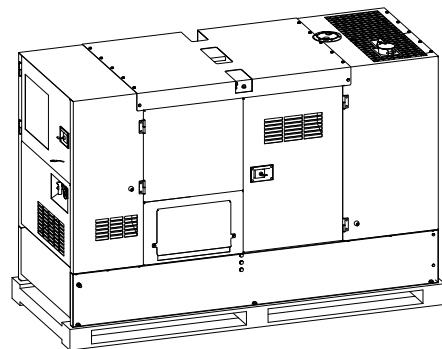
## 2 General Features

- S<sup>®</sup> à engine D1105-E4BG1
- Close coupled to Š<sup>®</sup> Ā<sup>®</sup> { ^<sup>®</sup> alternator LSA40VS1
- Q<sup>®</sup> Ā<sup>®</sup> control module PLC-920
- ABB main circuit breaker: 32A
- Rotate speed governor: T<sup>®</sup> Ā<sup>®</sup> Ā<sup>®</sup> [ ^<sup>®</sup> ]
- Excitation system: Self excited, SHUNT
- Key switch

- Emergency stop switch
- Remote control / mains input receptacle
- 1x12V/70AH battery and charger
- Lockable battery isolator switch
- Power coated canopy
- 50°C radiator
- Oil pump on the engine
- Steel base frame
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for HG hours running
- Drain points for fuel tank
- Operation Manual / Specifications

## 3 Equipment Specification

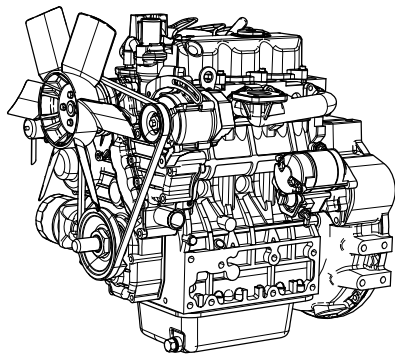
### General technical data



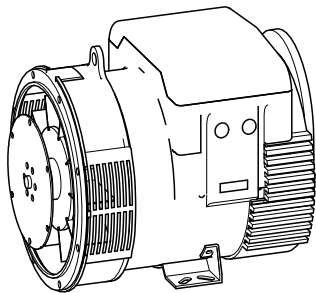
Model.....A10KS-T3  
Structure type ..... R  
Tank capacity..... 130L  
Dry weight.....699kg  
Sound pressure level @7m .....65.7dBA  
Dimensions L×W×H.....1800x865x1278mm  
Prime Power ..... 11kVA/9kW  
Standby Power ..... 12kVA/10kW

Voltage	208V	220V	230V	240V	
Ampere	30.5A	28.8A	27.6A	26.4A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	N/A	2.0	2.9	4.0	4.4

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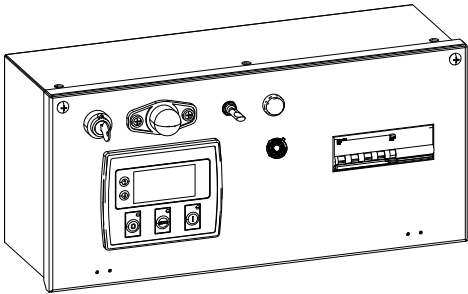


Engine Manufacturer/Brand.....	Kubota
Engine Model.....	D1105-E4BG1
Dimensions L×W×H.....	551.3x393.1x605.1mm
Dry Weigh (approx.) .....	110Kg
Number of Cylinders.....	3
Bore.....	78mm
Stroke .....	78.4mm
Displacement.....	1.123L
Compression Ratio .....	24.0
Type of injection.....	Direct injection
Intake 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 .....	Class CF lubricating oil
Oil Capacity .....	5.1L
Type of Coolant .....	Glycol mixture
Coolant Capacity .....	5.5L
Back Pressure .....	≤7.1kPa
Standby Power .....	11.5kW
Prime Power .....	10.4kW
Fuel Consumption(100%load).....	4.0L/h



Alternator Manufacturer/Brand .....	Leroy Somer
Alternator Model .....	LSA40VS1
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 .....	2250 rpm
Air Flow.....	0.514m³/s(50HZ),0.617m³/s(60HZ)
Voltage Regulation .....	±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

PLC-920 Control System

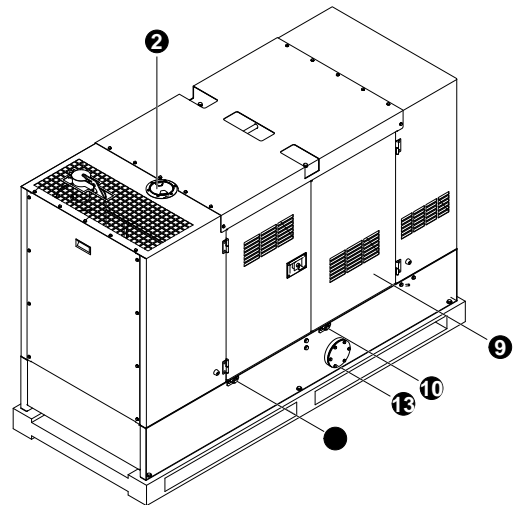
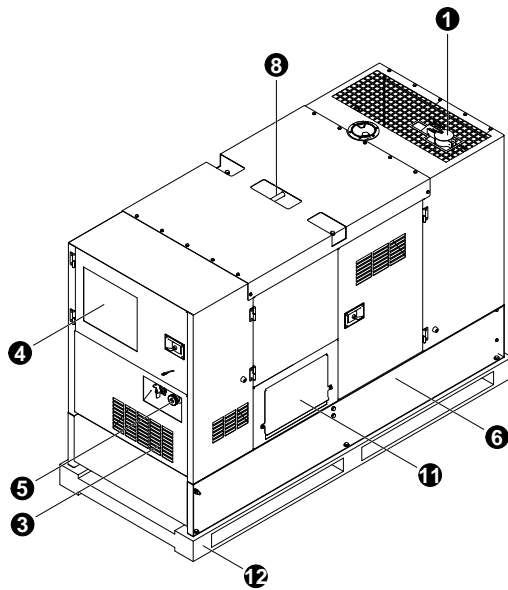


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure.

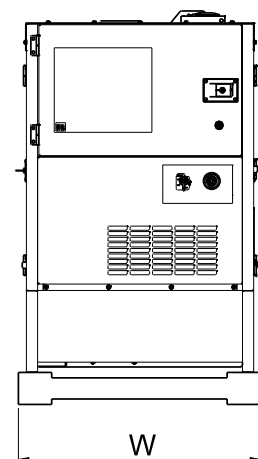
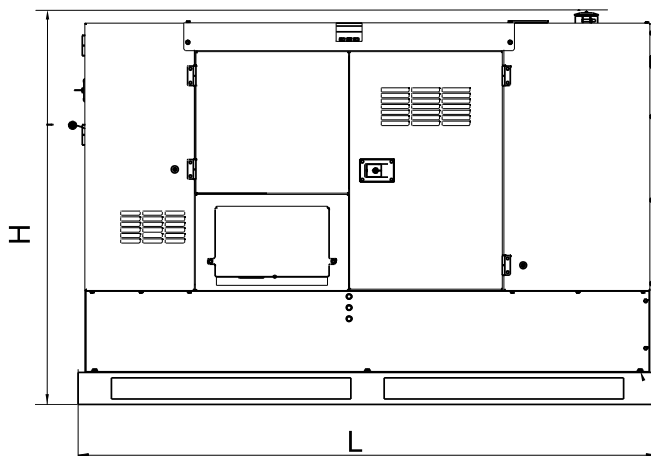
Standard Control Function

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

## 4 Overall Dimensions

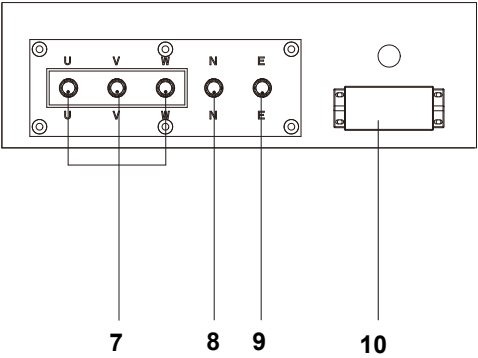
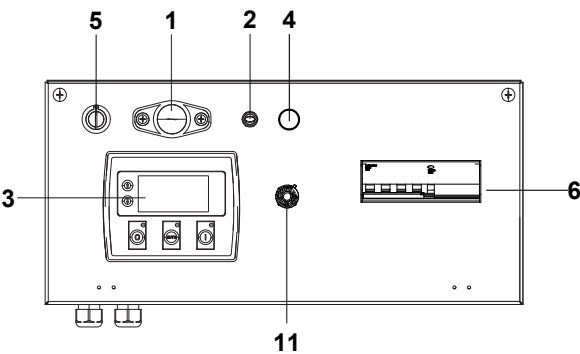


- |                              |                          |
|------------------------------|--------------------------|
| ⑧ Lifting lug                | ⑬ Fuel drain             |
| ⑦ Coolant drain hose fitting | ⑫ Wooden tray            |
| ⑥ Base frame                 | ⑪ Cable trench           |
| ⑤ Emergency stop switch      | ⑩ Oil drain hose fitting |
| ④ Control cabinet            | ⑨ Access door            |
| ③ Air inlet                  |                          |
| ② Coolant inlet              |                          |
| ① Exhaust gas outlet         |                          |

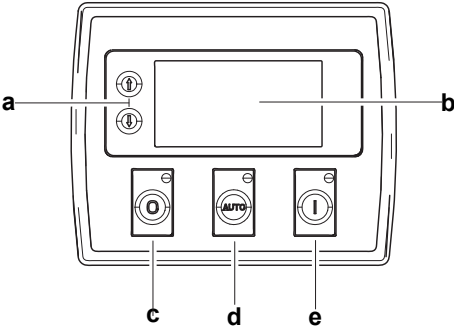




5 Control System



Control & field wiring cabinet



Control module

Ref.	Description
1	Control cabinet lamp
2	Control cabinet lamp switch
3	Control module
4	Charge indicator
5	Key switch
6	Main circuit breaker
7	Live wire terminals
8	Neutral wire terminal
9	Ground wire terminal
10	Mains input/remote communication connector
11	Voltage adjusting knob

Ref.	Description
a	Navigation button«» Accept (Configuration mode only)
b	Main status display
c	Stop/reset button«» Next page (Configuration mode only)
d	Auto start button«» Decrease value/next item (Configuration mode only)
e	Start button«» Increase value/next item (Configuration mode only)

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