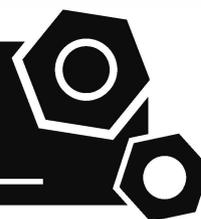


**Generator set**  
**Sound-proof type**  
**A18KS-T3**

# **SPECIFICATIONS**



**T3 series**  
**A18KS-T3, Tire 4 interim**  
**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.

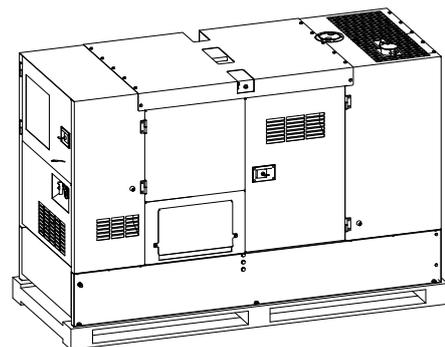
**2 General Features**

- SAE engine D1703-M-E3-BG
- Close coupled to LSA40M5 alternator
- Control module PLC-920
- ABB main circuit breaker: 1 HA
- Rotate speed governor: ECU
- 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 25 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

**3 Equipment Specification**

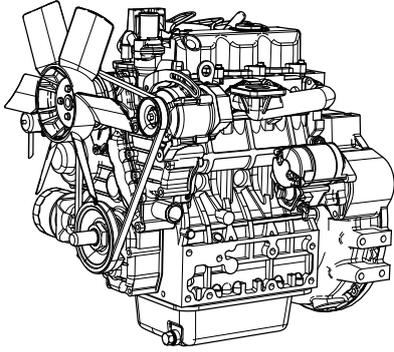
**General technical data**



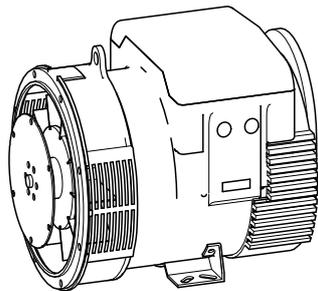
Model.....A18KS-T3  
 Structure type ..... R  
 Tank capacity..... 120L  
 Dry weight.....694kg  
 Sound pressure level @7m .....65.8dBA  
 Dimensions L×W×H.....1805x726x1206mm  
 Prime Power ..... 19kVA/15kW  
 Standby Power ..... 23kVA/18kW

Voltage	208V	220V	230V	240V	
Ampere	52.7A	49.8A	47.8A	45.7A	
<b>Genset Fuel Consumption</b>					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	N/A	2.4	3.7	4.8	5.3

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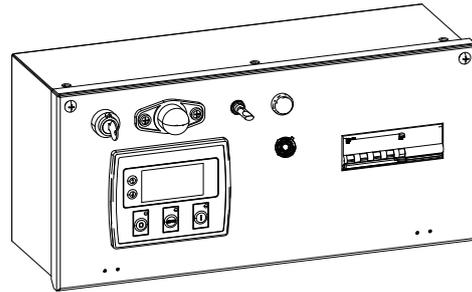


Engine Manufacturer/Brand.....	Kubota
Engine Model.....	ÖFİ € E Ö ÖÖ
Dimensions L×W×H.....	574×486×643mm
Dry Weigh (approx.).....	170Kg
Number of Cylinders.....	3
Bore.....	87mm
Stroke.....	92.4mm
Displacement.....	1.647L
Compression Ratio.....	22.0
Type of injection.....	Direct injection
Intake System.....	Natural aspirated
Intake Resistance.....	≤1.96kPa
Cooling System.....	Water cooled
Fan.....	Pusher
Battery Voltage.....	12V
Type of Fuel.....	No.2-D(ASTMD975)
Type of Oil.....	Class CF lubricating oil
Oil Capacity.....	5.6L
Type of Coolant.....	Glycol mixture
Coolant Capacity.....	5.5L
Back Pressure.....	≤7.1kPa
Standby Power.....	18.1kW
Prime Power.....	15.1kW
Fuel Consumption(100%load).....	4.8L/h



Alternator Manufacturer/Brand.....	Leroy Somer
Alternator Model.....	LSA40M5
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

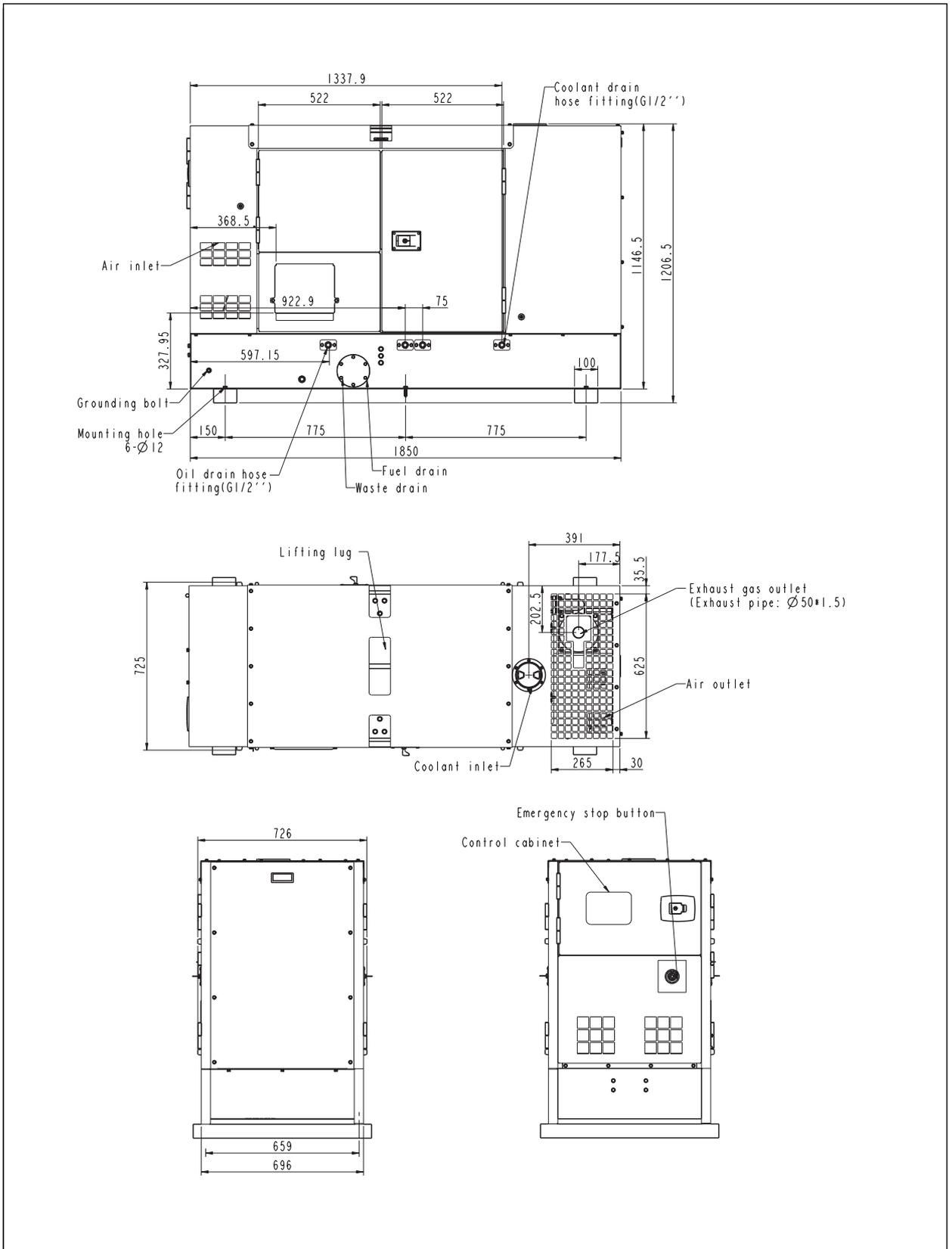


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine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

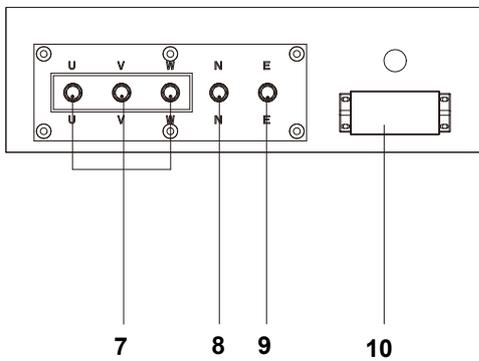
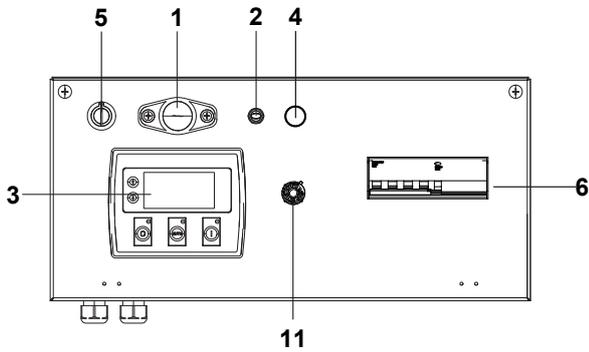
### Standard Control Function

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

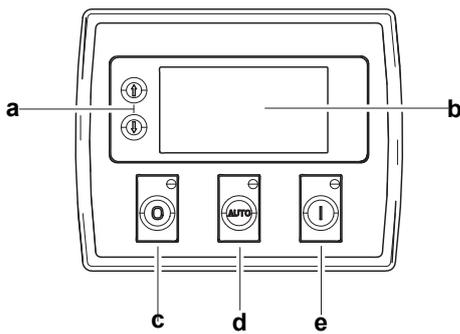
## 4 Overall Dimensions



## 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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<http://www.powerlinkworld.com>

*Specification may change without prior notice. For more info.,  
contact Power Link or your local distributors please.*