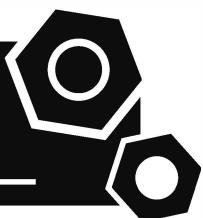


**Generator set**  
**Sound-proof type**  
**A25KS**

## SPECIFICATIONS



## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (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.

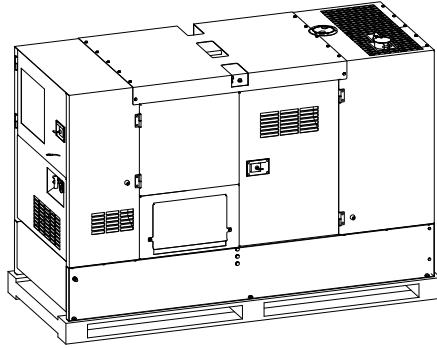
## 2 General Features

- Sauer engine D1803-CR-TIE4BG
- Close coupled to Sauer alternator LSA42.3VS1
- QM12 control module PLC-7420
- ABB main circuit breaker: 80A
- Rotate speed governor: ECU
- Exhaust gas purification system with EGR and DOC
- Excitation system: Self excited, SHUNT
- Key switch

- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 1x12V/72AH 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 24 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

## 3 Equipment Specification

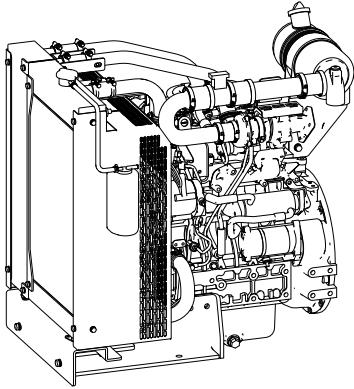
### General technical data



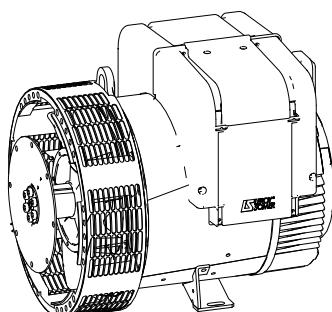
Model.....	A25KS
Structure type .....	RS
Tank capacity.....	140L
Dry weight.....	948kg
Sound pressure level @7m .....	65dBA
Dimensions L×W×H.....	2080x870x1415mm
Prime Power .....	25kVA/20kW
Standby Power .....	28kVA/22kW

Voltage	208V	220V	230V	240V	
Ampere	69.4A	65.6A	62.8A	60.1A	
<b>Genset Fuel Consumption</b>					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	N/A	3.0	4.6	5.8	6.3

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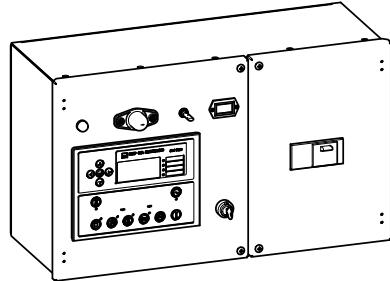


Engine Manufacturer/Brand.....	Kubota
Engine Model.....	D1803-CR-TIE4BG
Dimensions L×W×H.....	740×536×728mm
Dry Weigh (approx.) .....	213Kg
Number of Cylinders.....	3
Bore .....	87mm
Stroke .....	102.4mm
Displacement.....	1.826L
Compression Ratio.....	16.0
Type of injection.....	High pressure common rail
Intake System.....	Turbocharged
Intake Resistance.....	≤2.45kPa
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage .....	12V
Type of Fuel.....	No.2-D S15, Ultra Low Sulfur Fuel Only
Type of Oil .....	Class CJ-4/CK-4 oil as per API classification
Oil Capacity .....	7.0L
Type of Coolant .....	Glycol mixture
Coolant Capacity .....	8.8L
Back Pressure .....	≤5.3kPa
Standby Power .....	24.2kW
Prime Power .....	22.1kW
Fuel Consumption(100%load).....	5.8L/h



Alternator Manufacturer/Brand .....	Leroy Somer
Alternator Model .....	LSA42.3VS1
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

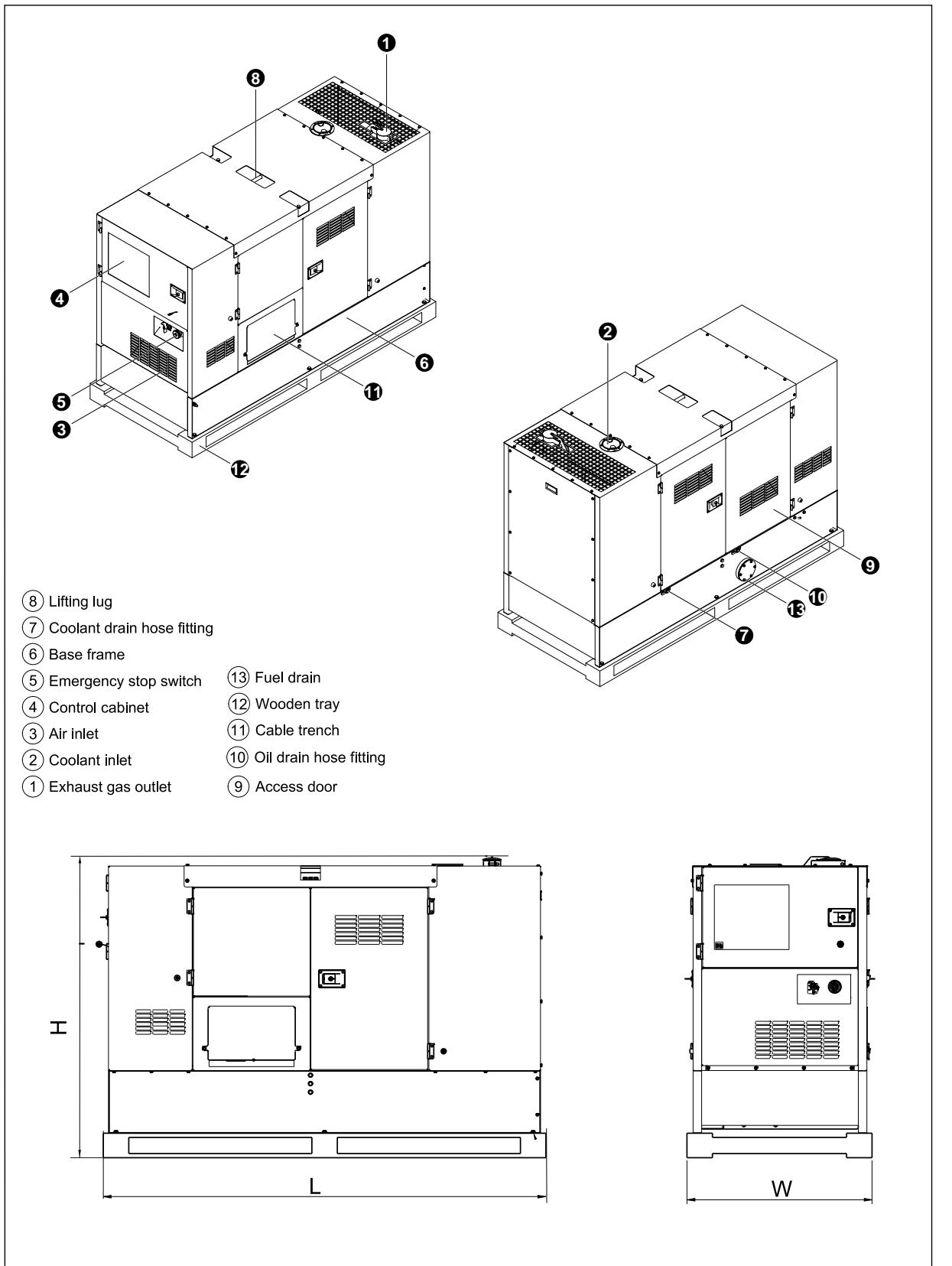
## PLC-7420 Control System



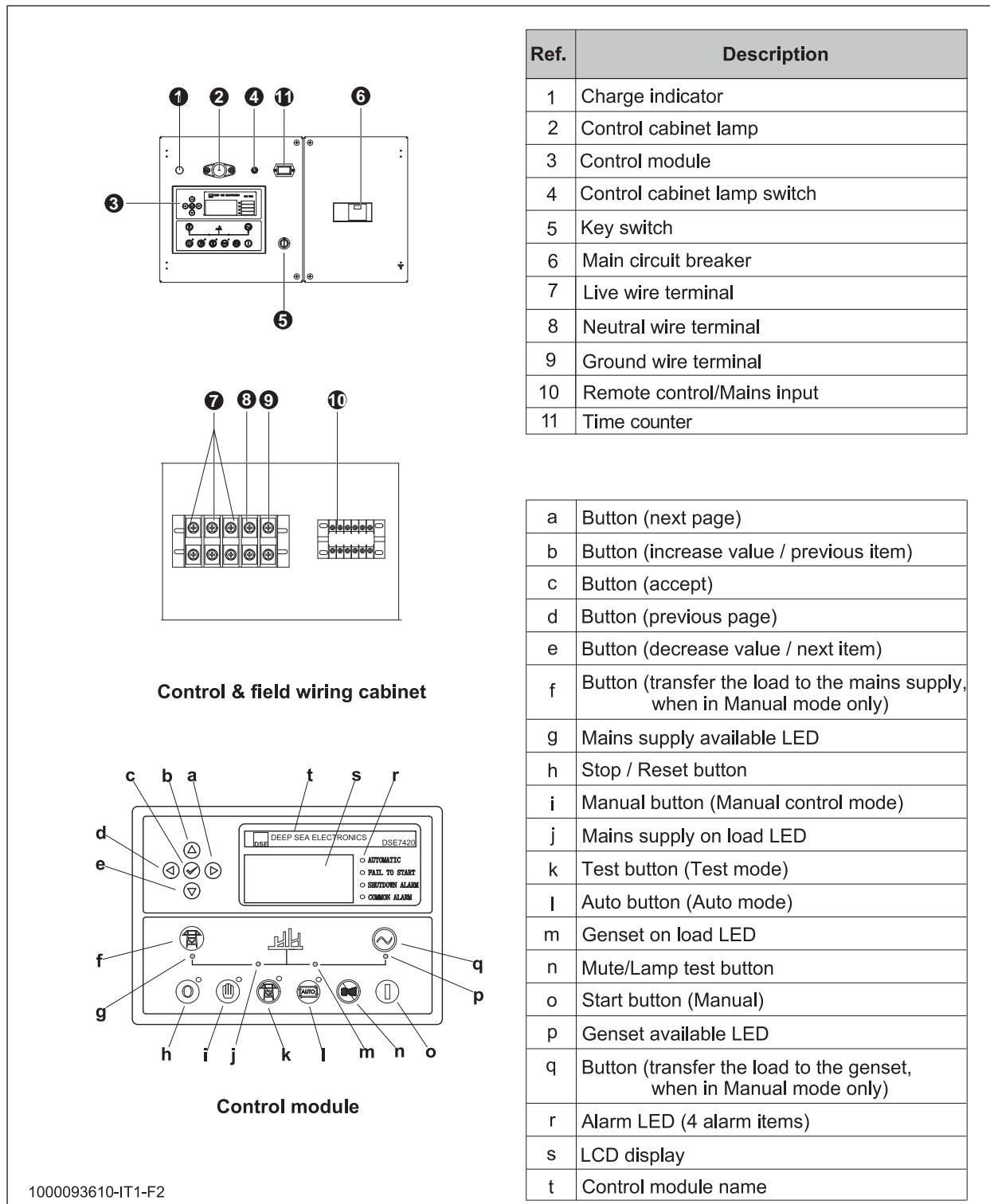
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and 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



## 5 Control System



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12.2019

<http://www.powerlinkworld.com>

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

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