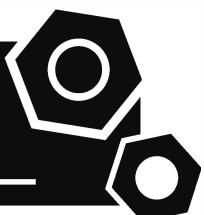


**Generator set  
Sound-proof type  
A400SS**

**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.

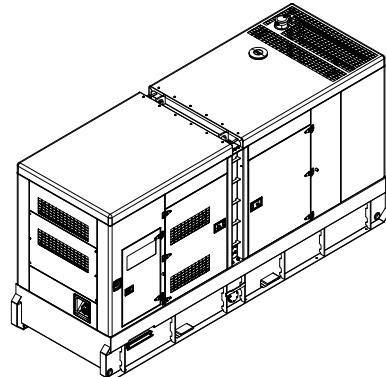
## 2 General Features

- Scania engine DC13085A
- Close coupled to  $\frac{1}{2}$  alternator LSA46.3L11
- $\frac{1}{2}$  control module PLC-7420
- ABB main circuit breaker: 1250A
- Rotate speed governor: ECU
- Exhaust gas purification system with DOC and SCR
- Excitation system: Self excited, SHUNT
- Key switch

- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 2x12V/120AH 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 13 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

## 3 Equipment Specification

### General technical data

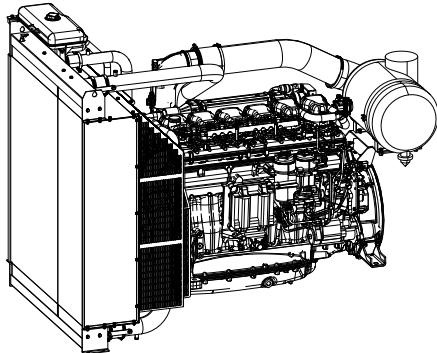


Model.....	A400SS
Structure type .....	R
Tank capacity.....	1100L
Dry weight.....	4652kg
Sound pressure level @7m .....	78dBA
Dimensions L×W×H.....	4262x1445x2461mm
Prime Power .....	400kVA/320kW
Standby Power .....	440kVA/352kW

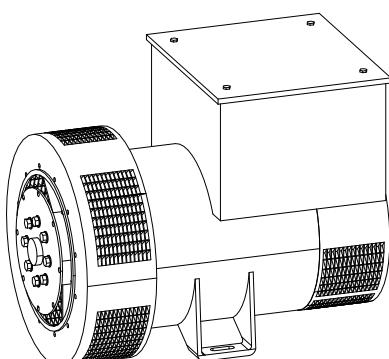
Voltage	416V	440V	460V	480V
Ampere	555.2A	524.9A	502.1A	481.1A

Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	21	16.8	65	84	92.4

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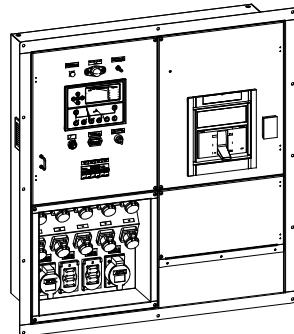


Engine Manufacturer/Brand.....	Scania
Engine Model.....	DC13085A
Dimensions L×W×H.....	1519×955×1427mm
Dry Weigh (approx.) .....	1075Kg
Number of Cylinders.....	6
Bore .....	130mm
Stroke .....	140mm
Displacement.....	12.7L
Compression Ratio.....	17.5
Type of injection.....	High pressure common rail
Intake System.....	Turbocharged
Intake Resistance.....	≤3.0kPa
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage .....	24V
Type of Fuel.....	Ultra Low Sulfur Fuel Only
Type of Oil ....	Class CJ-4/CK-4 oil as per API classification
Oil Capacity .....	45.0L
Type of Coolant .....	Glycol mixture
Coolant Capacity .....	17.0L
Back Pressure .....	≤10.0kPa
Prime Power .....	368kW
Fuel Consumption(100%load).....	84L/h



Alternator Manufacturer/Brand .....	Leroy Somer
Alternator Model .....	LSA46.3L11
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

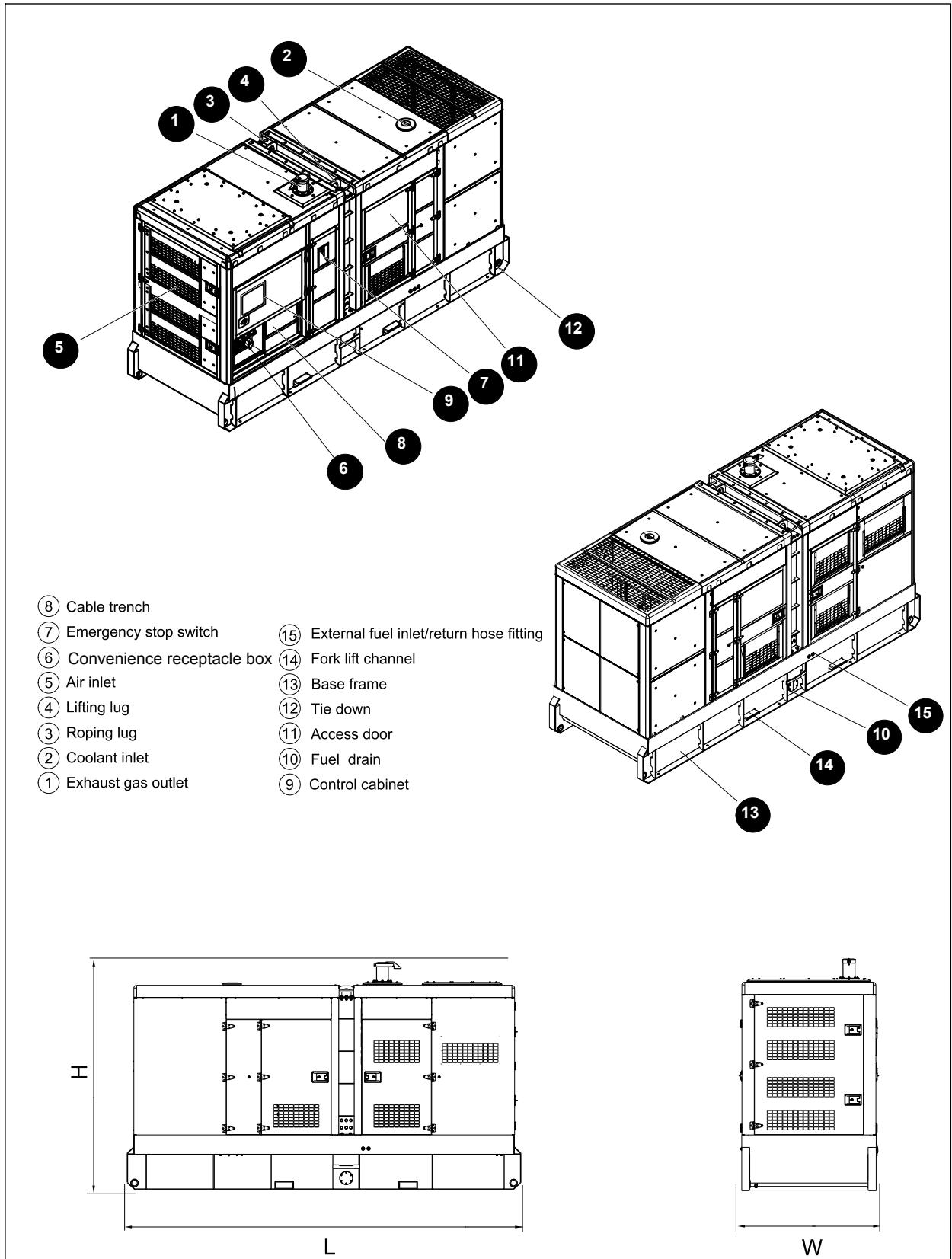
## PLC-7420 Control System



PLC-7420 is an advanced control module based on micro-processor, 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

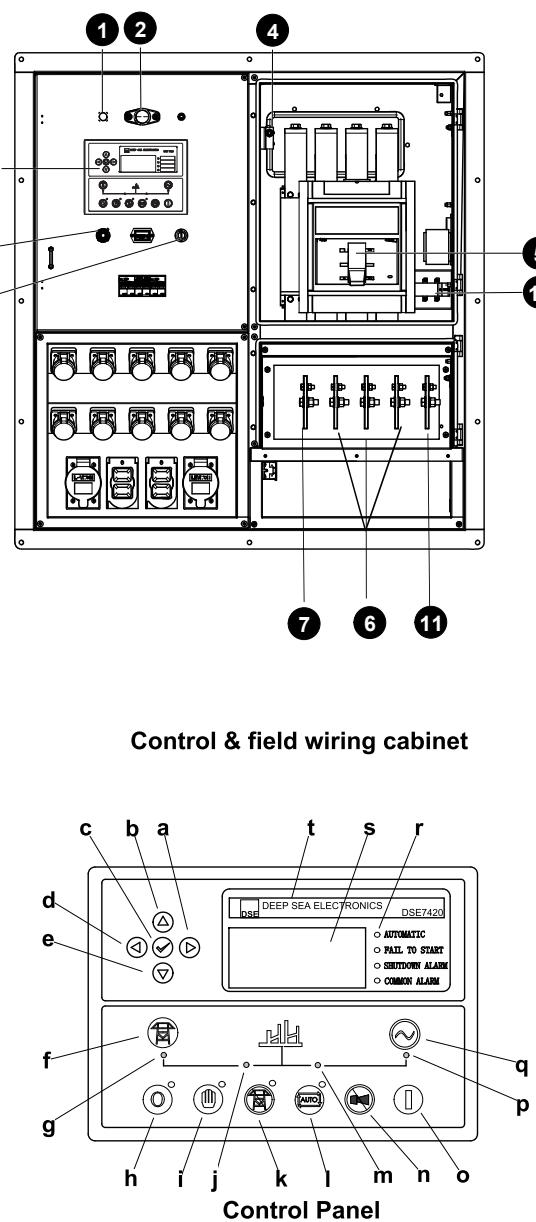


## 5 Control System

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

a	Button (next page)
b	Button (increase value / previous item)
c	Button (accept)
d	Button (previous page)
e	Button (decrease value / next item)
f	Button (transfer the load to the mains supply, when in Manual mode only)
g	Mains supply available LED
h	Stop / Reset button
i	Manual button (Manual control mode)
j	Mains supply on load LED
k	Test button (Test mode)
l	Auto button (Auto mode)
m	Genset on load LED
n	Mute/Lamp test button
o	Start button (Manual)
p	Genset available LED
q	Button (transfer the load to the genset, when in Manual mode only)
r	Alarm LED (4 alarm items)
s	LCD display
t	Control module name



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*Specification may change without prior notice. For more info.,  
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