

Generator set Sound-proof type A350SS

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.

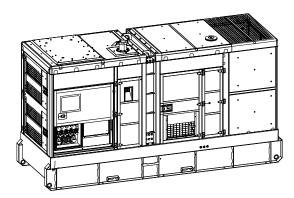
2 General Features

- Scania engine DC13 084A
- Close coupled to Š^\[^ÂÛ[{ ^\ alternator LSA46.3M8
- Qc^||ā*^} ofcontrol module PLC-7420
- ABB main circuit breaker: 1000A
- 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 9 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

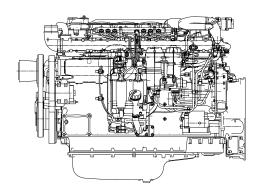
General technical data



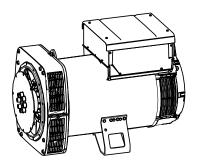
Model	A350SS
Structure type	R
Tank capacity	1100L
Dry weight	4460kg
Sound pressure level @7m	77dBA
Dimensions L×W×H	4262x1425x2460.6mm
Prime Power	350kVA/280kW
Standby Power	385kVA/308kW

Voltage	416V			440V	460	460V		480V	
Ampere	485.8A		4	459.3A	439.3A		421.0A		
Genset Fuel Consumption									
Frequency/Load		25%)	50%	75%	100	0%	110%	
60Hz (L/h) 21		21		42	65	8	4	92.4	

Dck Yf 'GmghYa

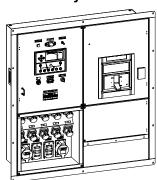


Engine Manufacturer/Brand	Scania
Engine Model	DC13 084A
Dimensions L×W×H	1519×955×1427mm
Dry Weigh (approx.)	1075Kg
Number of Cylinders	6
Bore	130mm
Stroke	140mm
Displacement	12.7L
Compression Ratio	17.5
Type of injection	High pressure common rail
Intake System	Turbocharged
Intake Resistance	≤3.0kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel	. Ultra Low Sulfur Fuel Only
Type of OilClass 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	294kW
Fuel Consumption(100%load)	84/h



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA46.3M8
Exciter	Brushless
Cooling Fan	Cast alloy aluminum
Windings	100% copper
Insulation Class	Н
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 loa	ad < 1.5 % - on load < 5%
Telephone Interference	THF<2%;TIF<50

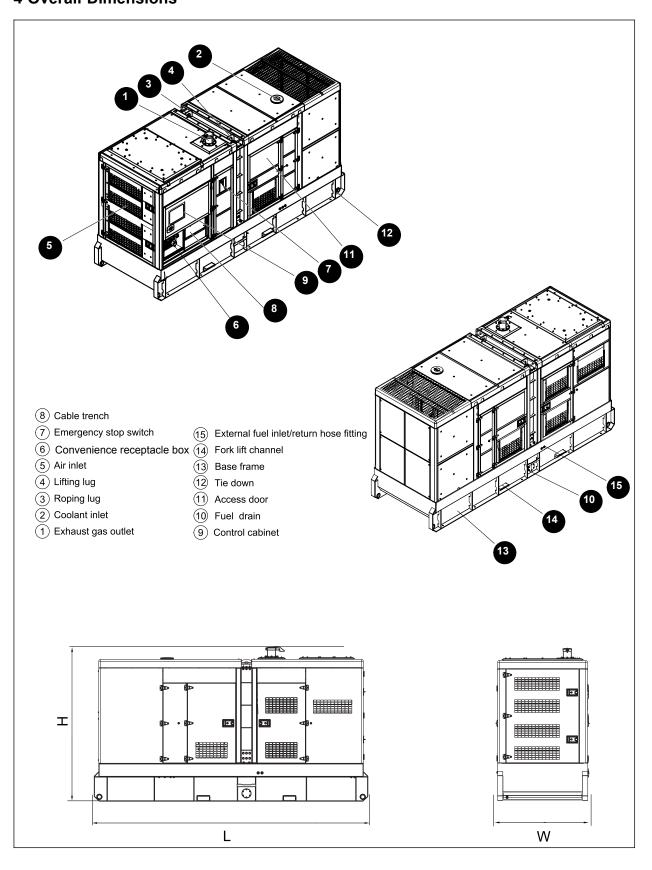
PLC-7420 Control System



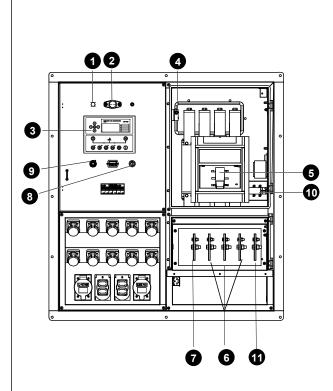
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

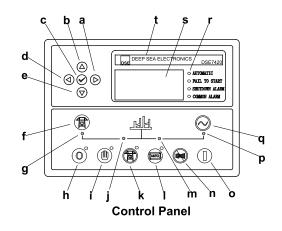
4 Overall Dimensions



5 Control System



Control & field wiring cabinet



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

а	Button (next page)
b	Button (increase value / previous item)
С	Button (accept)
d	Button (previous page)
е	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)
I	Auto button (Auto mode)
m	Genset on load LED
n	Mute/Lamp test button
О	Start button (Manual)
р	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

1000030427-A1-E

11.2022