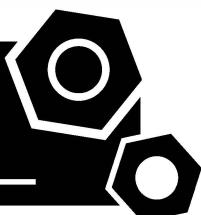


Generator set
Containerised type
GMS900CS

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

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 90%.
- Altitude: Below one thousand (1000) meters above sea level.

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

- Cummins engine KTA38-G2A
- Close coupled to Leroy Somer LSA49.3 L9
- Microprocessor control module PLC-7420
- Main circuit breaker: 1600A
- Rotate speed governor: Electrical governor FP801
- Excitation System: Self Excited,AREP
- A.V.R.Model: D350
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 4x12V/150AH sealed for life maintenance free battery

- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Steel base frame with forklift slots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 7 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

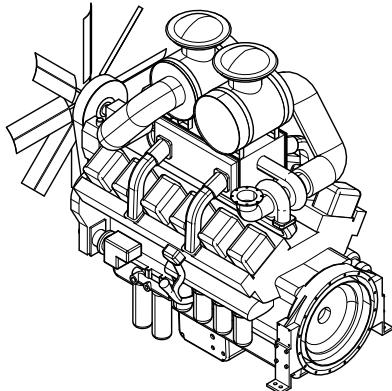
General technical data



Model.....	GMS900CS
Structure type	C
Tank capacity.....	1450L
Dry weight.....	12096kg
Noise level @7m	79.3dBA
Dimensions L×W×H.....	6058x2438x2591mm
Standby Power	990kVA/792kW
Prime Power.....	900kVA/720kW

Voltage	380V	400V	415V		
Ampere	1367A	1299A	1252A		
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	49	96	147	191	210

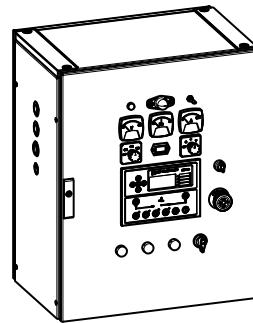
Dck Yf Gnghyā



Engine Manufacturer/Brand.....	Cummins
Engine Model.....	KTA38-G2A
Dimensions L×W×H.....	2265.0*1379*2231.9
Dry Weigh (approx.)	3723kg
Number of Cylinders.....	12
Bore	159mm
Stroke.....	159mm
Displacement.....	37.5L
Compression Ratio.....	14.5
Type of injection.....	Direct injection
Intake System.....	Turbo charged
Intake Resistance.....	6.23kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	No.2 or ASTM D975
Type of Oil	CF4/SG15W-40
Oil Capacity	135L
Type of Coolant	Glycol mixture
Coolant Capacity	194L
Back Pressure	≤10kPa
Standby Power	895kW
Prime Power	813kW
Fuel Consumption(100%load).....	191L/h

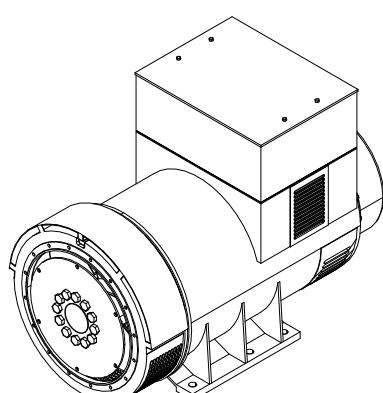
Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA49.3 L9
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings.....	100% copper
Insulation Class	H
Winding Pitch.....	2/3
Terminals	12
Drip Proof	IP23
Altitude.....	≤1000m
Overspeed	2250rpm
Air Flow.....	2.18m³/s(50Hz),2.63m³/s(60Hz)
Voltage Regulation	±0.5%
Total Harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

PLC-7420 Control System

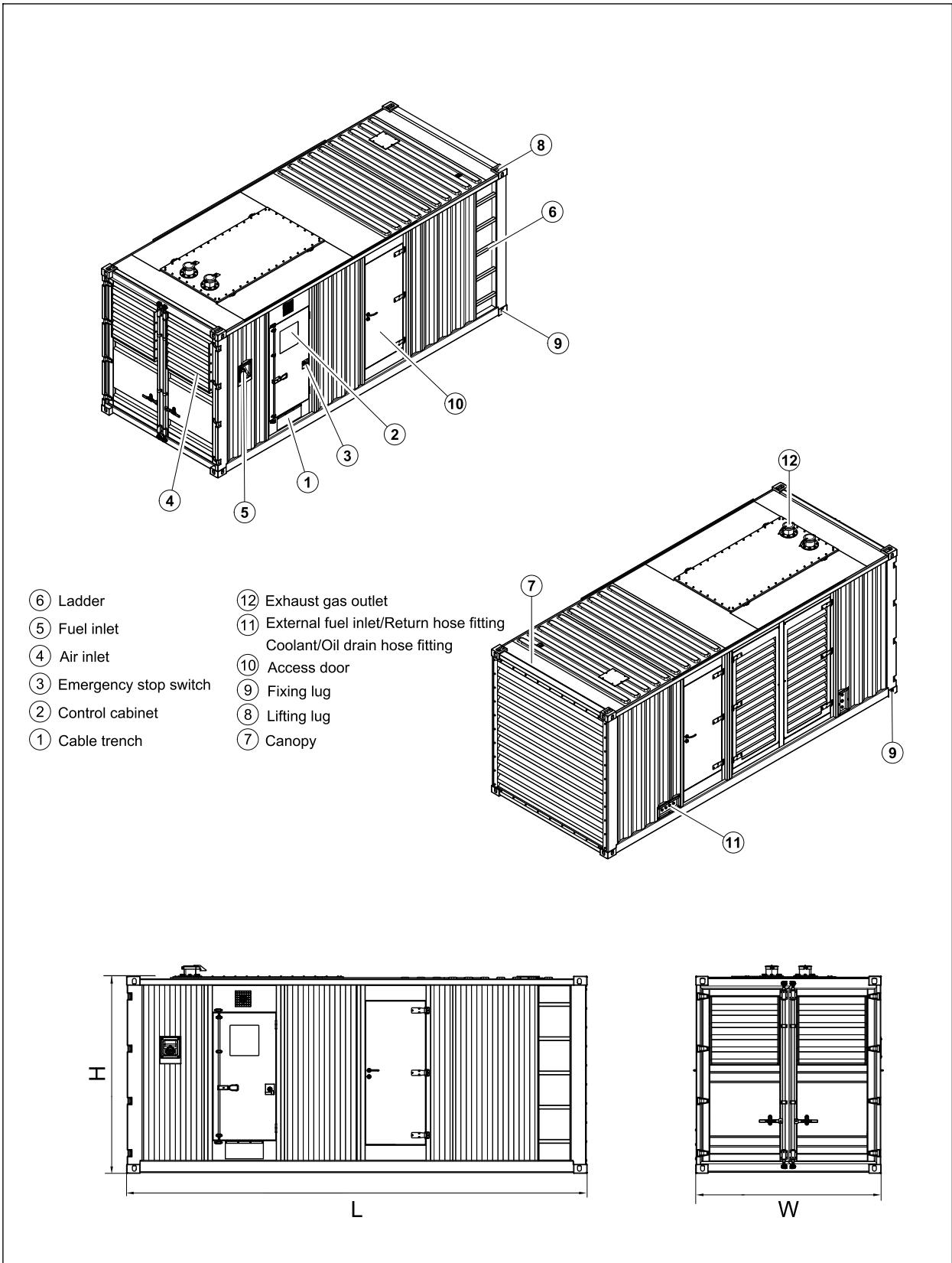


PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

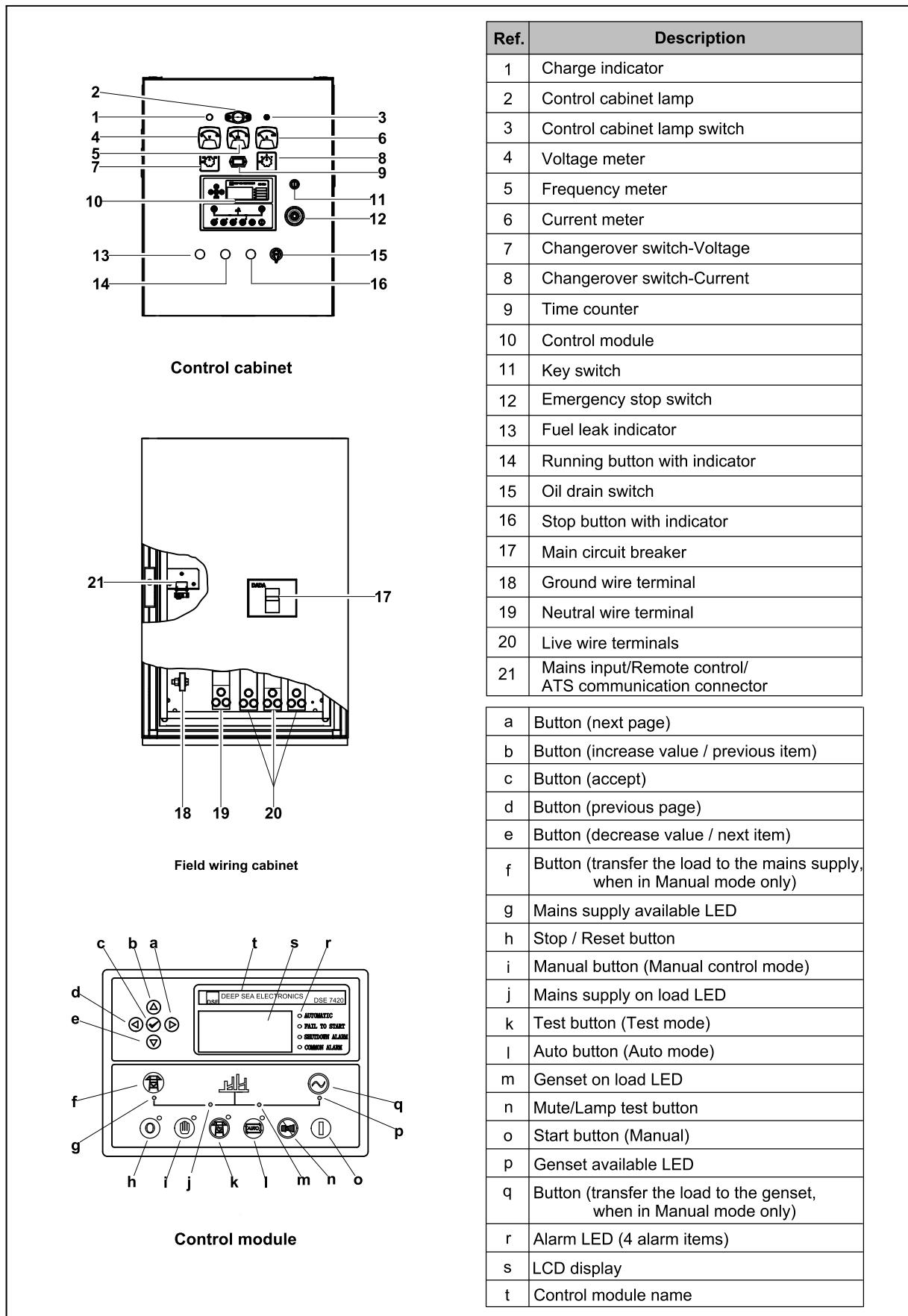
- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, 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



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