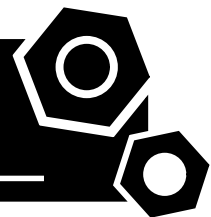


**Generator set**  
**Containerized type**  
**GMS1250CS**

# **SPECIFICATIONS**



## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformance European (CE)
- China Compulsory Certification (CCC)
- TLC Quality Certification (TLC)
- ISO8528-1995
- GB/T2820-1997

### Environmental Operating Conditions

- Installation place: Outdoors or indoors (well ventilated).
- Ambient temperature: -25°C to 45°C. The coolant heater is needed when the temperature is below 5°C
- Humidity: Less than 80%.
- 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.

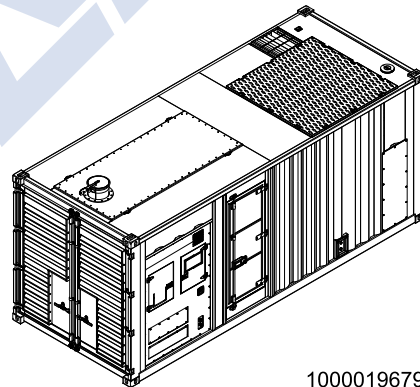
## 2 General Features

- Cummins engine KTA50-G3
- Close coupled to a Stamford alternator LVI634G
- Microprocessor control module PLC-7320
- ABB main circuit breaker: 3-Phase 2000A
- Rotate speed governor: Electrical governor
- Excitation System: SHUNT
- A.V.R.Model: MX321
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- 2x12V sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Fire extinguisher
- Oil pump on the engine
- Steel base frame with forklifts
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Fuel tank for 5 hours running
- Drain points for fuel tank
- Fuel inlet pump and it's control box for the fuel tank
- Added fuel-water separator for fuel tank
- Operation Manual / Parts List / Specifications

## 3 Equipment Specification

### General technical data

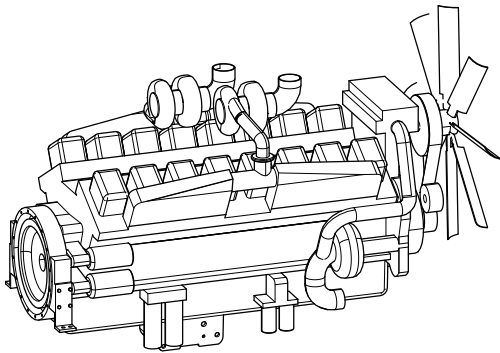


1000019679-AP1-A1

Model.....	GMS1250CS		
Structure type .....	C		
Tank capacity.....	1500L		
Dry weigh.....	15308kg		
Noise level @7m .....	N/A		
Dimensions L×W×H.....	6058×2438×2830mm		
Standby Power .....	1375kVA/1100kW		
Prime Power .....	1250kVA/1000kW		

Voltage	380V	400V	415V
Ampere	1899A	1804A	1739A

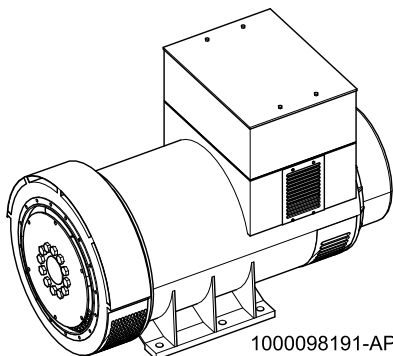
## Diesel engine



1000098180-AP1-A2

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	KTA50-G3
Dimensions L×W×H.....	N/A
Dry Weigh (approx.).....	5058kg
Number of Cylinders.....	16
Bore.....	159mm
Stroke.....	159mm
Displacement.....	50.3L
Compression Ratio.....	13.9
Type of injection.....	Direct injection
Intake System.....	Turbocharged and aftercooled
Intake Resistance.....	6.23kPa
Cooling System.....	Water cooled
Fan.....	Push
Battery Voltage.....	24V
Type of Fuel.....	NO.2 or ASTM D975
Type of Oil.....	CF4/SG15W-40
Oil Capacity.....	177L
Type of Coolant.....	Glycol mixture
Coolant Capacity engine only.....	161L
Back Pressure.....	≤10kPa
Standby Power.....	1227kW
Continuous Power.....	1097kW
Fuel Consumption(100%load).....	261L/h

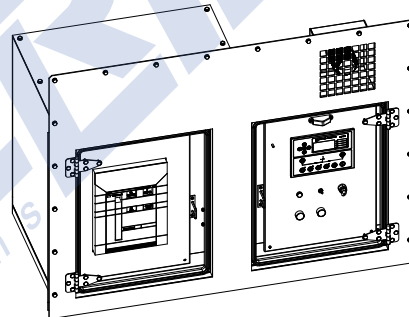
## Alternator



1000098191-AP1-A1

Alternator Manufacturer/Brand.....	Stamford
Alternator Model.....	LVI634G
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-7320 Control System



1000103709-AP1-B6

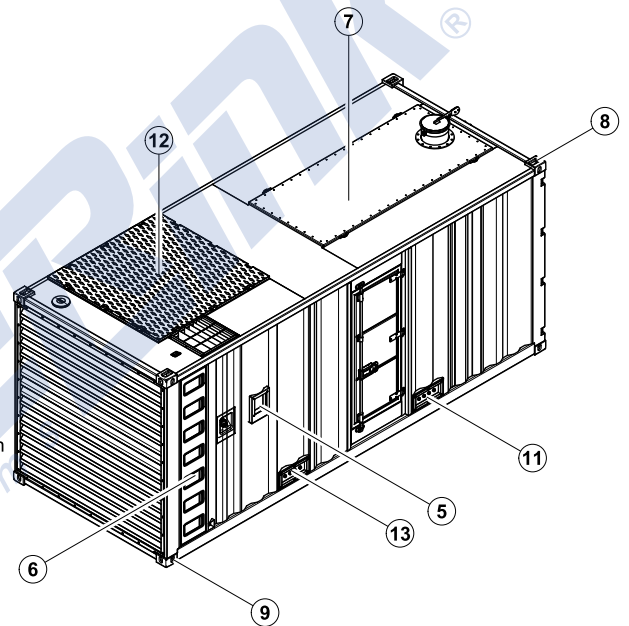
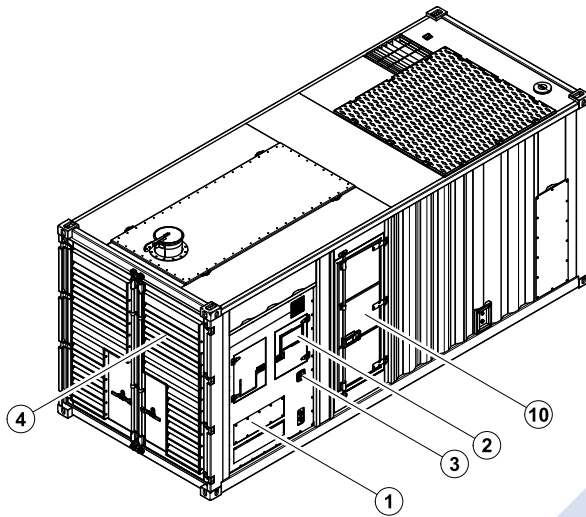
PLC-7320 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and 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

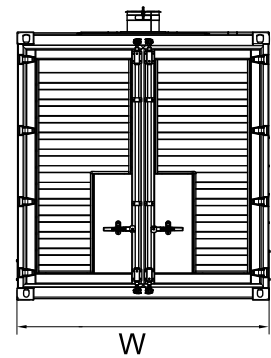
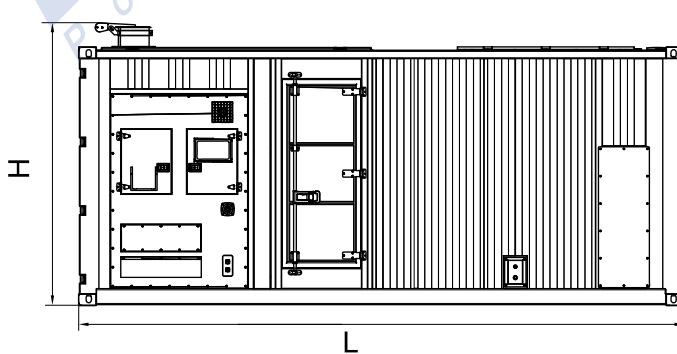
## 4 Overall Dimensions

1000019679-DR1-A1

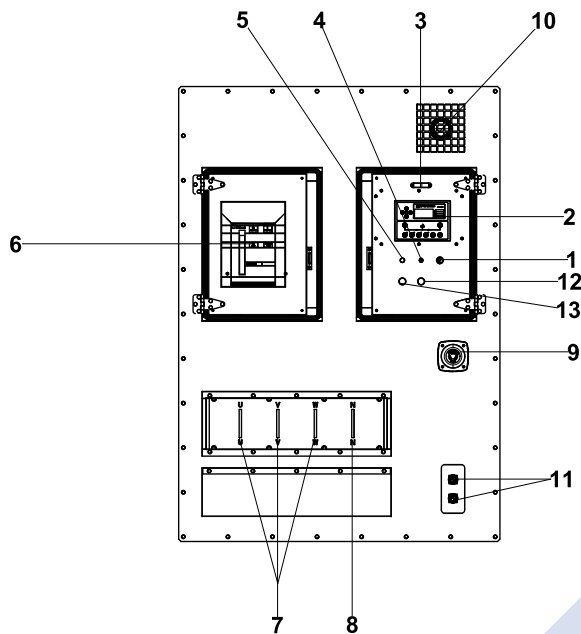
Dry weight	15308kg
Fuel tank capacity	1500L
Dimensions L x W x H	6058x2438x2830mm



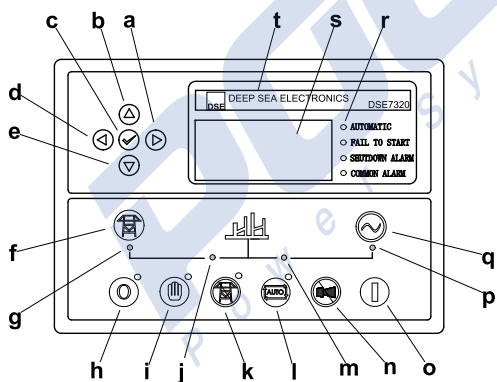
- ⑦ Muffler
- ⑥ Ladder
- ⑤ Fuel inlet
- ④ Air inlet
- ③ Emergency stop switch
- ② Control cabinet
- ① Cable trench
- ⑬ Coolant drain hose fitting
- ⑫ Canopy
- ⑪ Oil drain/ External fuel inlet/return hose fitting
- ⑩ Access door
- ⑨ Fixing lug
- ⑧ Lifting lug



## 5 Control System



**Control & Field wiring cabinet**



**Control Panel**

Ref.	Description
1	Key switch
2	Control module
3	Control cabinet lamp
4	Control cabinet lamp switch
5	Charge indicator
6	Main circuit breaker
7	Live wire terminals
8	Neutral wire terminal
9	Emergency stop switch
10	Alarm indicator
11	ATS communication interface
12	Genset circuit breaker OFF button
13	Genset circuit breaker ON button

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

1000019679-A1-E
-----------------

03.2011
---------

**POWERLINK**<sup>®</sup>  
Power Systems

<http://www.powerlinkgenset.com>

E-mail: [info@powerlinkgenset.com](mailto:info@powerlinkgenset.com)

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