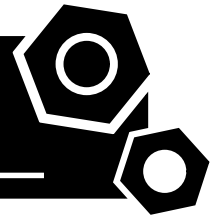


Generator set
Containerized type
GMS1000CS

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Europeenne (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.

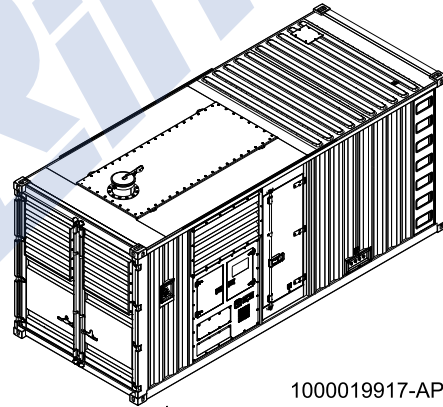
2 General Features

- Cummins engine KAT38-G5
- Close coupled to a Stamford alternator LVI634E
- Microprocessor control module PLC-7320
- DMA 3-Phase 1600A main circuit breaker
- 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
- Oil pump on the engine
- Steel base frame with forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 5 hours running
- Drain points for fuel tank
- Operation Manual / Parts List / Specifications

3 Equipment Specification

General technical data

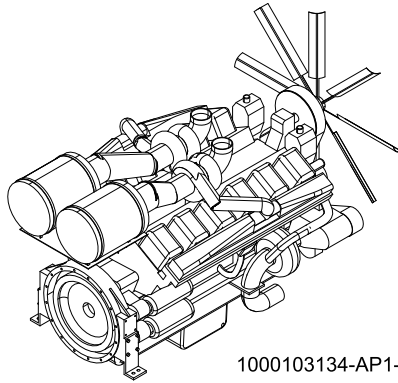


1000019917-AP1-C3

Model.....GMS1000CS
 Structure type C
 Tank capacity..... 1150L
 Dry weigh..... 12465kg
 Noise level @7m 75.3dBA
 Dimensions L×W×H.....6058×2438×2790mm
 Standby Power 1100kVA/880kW
 Prime Power 1000kVA/800kW

Voltage	380V	400V	415V
Ampere	1519.4A	1443.4A	1391.2A

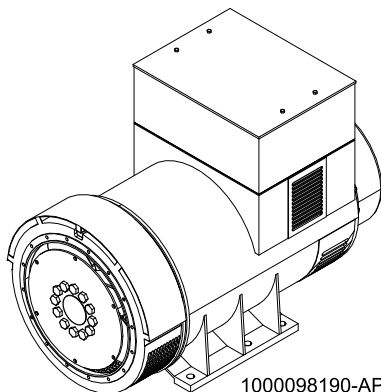
Diesel engine



1000103134-AP1-A1

Engine Manufacturer/Brand	Cummins
Engine Model	KTA38-G5
Dimensions L×W×H.....	N/A
Dry Weigh (approx.)	3723kg
Number of Cylinders.....	12
Bore.....	159mm
Stroke	159mm
Displacement.....	37.8L
Compression Ratio	13.9
Type of injection.....	Direct
Intake System.....	Turbocharged
Intake Resistance	6.23kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	No.2 Diesel
Type of Oil	CF4/SG15W-40
Oil Capacity	135L
Type of Coolant	Glycol mixture
Coolant Capacity	199L
Back Pressure	≤10kPa
Standby Power970kW
Continuous Power880kW
Fuel Consumption(100%load).....	.209L/h

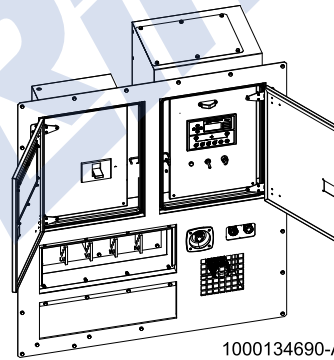
Alternator



1000098190-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	LVI634E
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



1000134690-AP1-A4

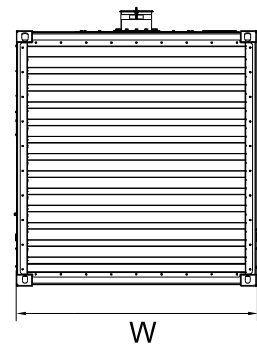
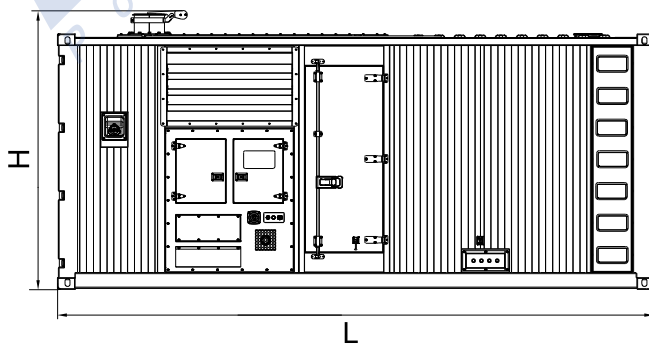
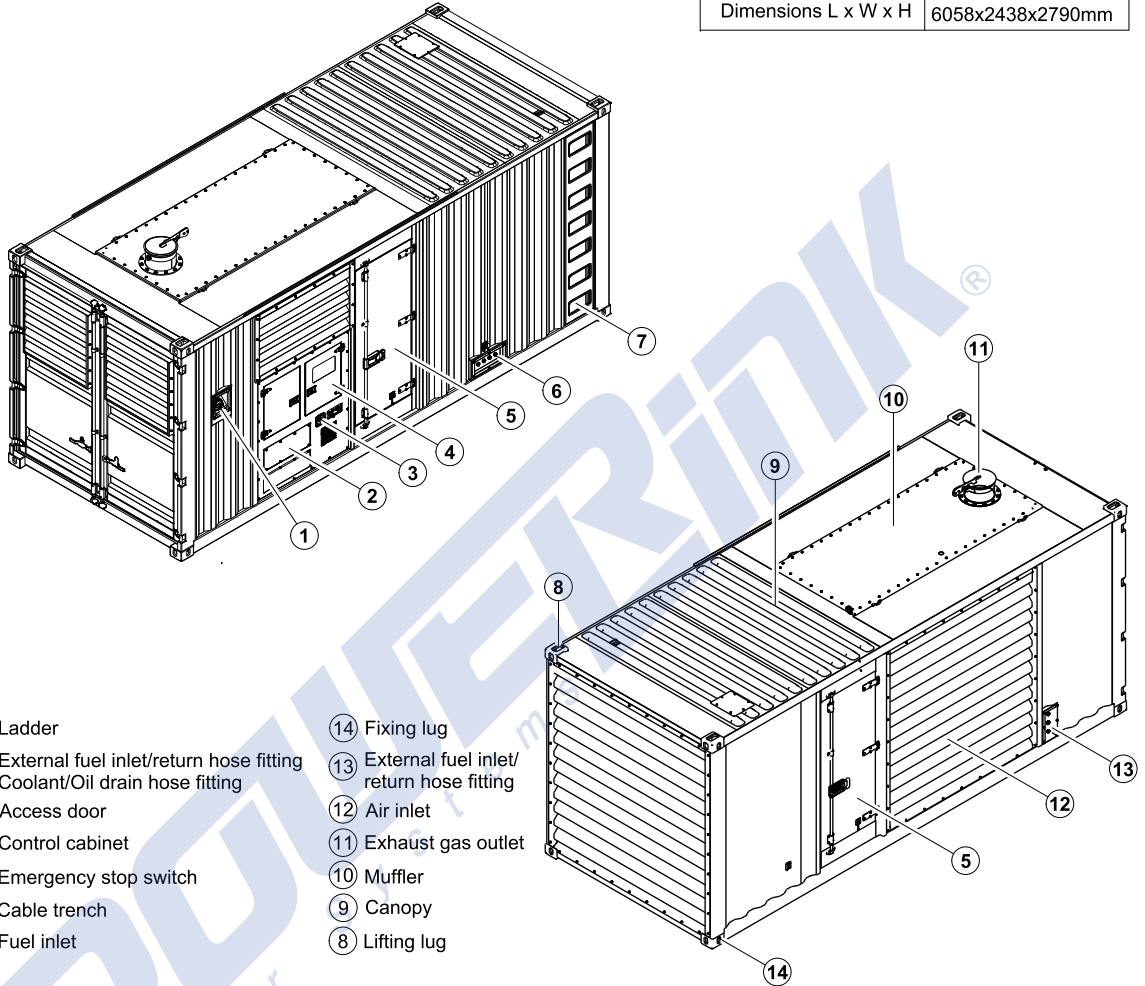
PLC-7320 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

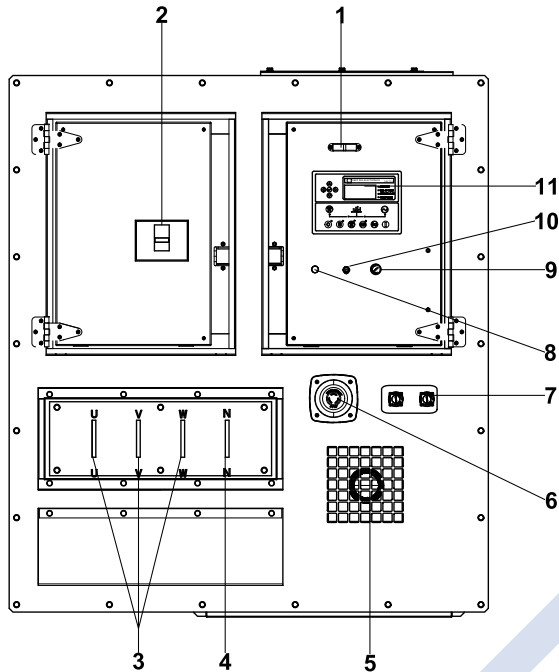
4 Overall Dimensions

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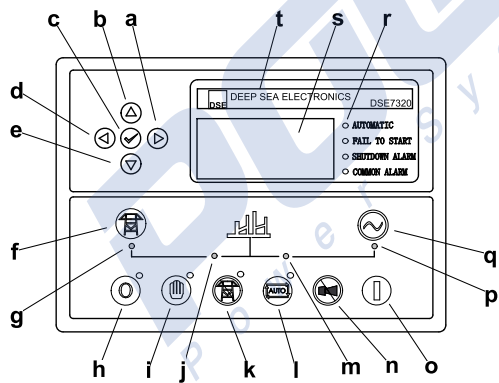
Dry weight	12465kg
Fuel tank capacity	1150L
Dimensions L x W x H	6058x2438x2790mm



5 Control System



Control Cabinet



Control Panel

Ref.	Description
1	Control panel lamp
2	Main circuit breaker
3	Live wire terminals
4	Neutral wire terminal
5	Alarm indicator
6	Emergency stop button
7	ATS communication interface
8	Charge indicator
9	Key switch
10	Control panel lamp switch
11	PLC-7320 control module

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

1000019917-C3-E

02.2011

POWERLINK[®]
P o w e r S y s t e m s

<http://www.powerlinkgenset.com>

E-mail: info@powerlinkgenset.com

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