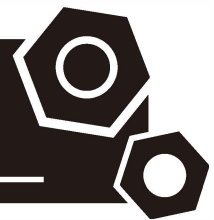


Generator set

Containerized type

GMS1000CS

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (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.

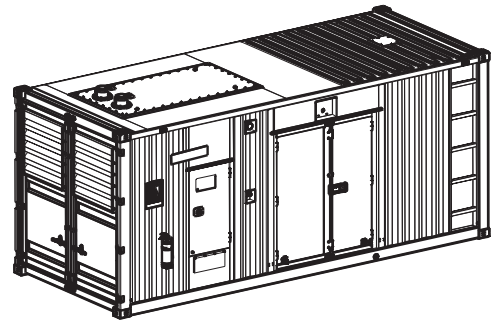
2 General Features

- Cummins engine KTA38-G5
- Close coupled to Leroy-somer alternator LSA49.3L10
- Microprocessor control module PLC-7420
- Main circuit breaker: 1600A
- Rotate speed governor: EFC
- Excitation System: Self Excited,SHUNT
- A.V.R.Model: R350
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- Remote run connector
- 2x12V sealed for life maintenance free battery

- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Non-returning valve for fuel inlet hose of the engine
- Steel base frame with forklifts
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 6 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation Manual / Parts List / Specifications

3 Equipment Specification

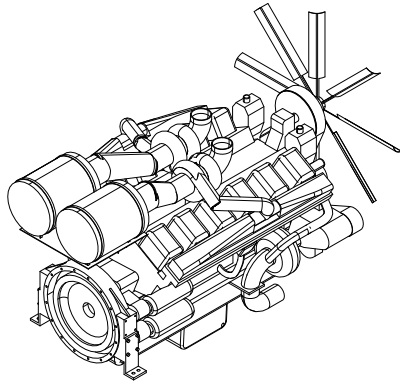
General technical data



Model.....GMS1000CS
 Structure type C
 Tank capacity..... 1450L
 Dry weigh..... 12180kg
 Noise level @7m 80.6dBA
 Dimensions L×W×H.....6058×2438×2791mm
 Standby Power 1100kVA/880kW
 Prime Power..... 1000kVA/800kW

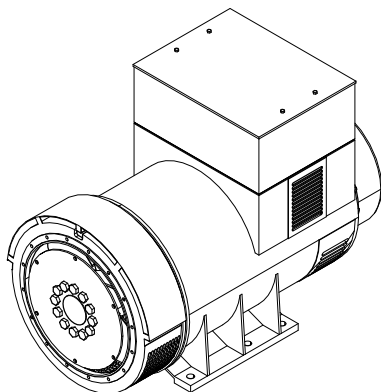
Voltage	380V	400V	415V	440V	
Ampere	1519A	1443A	1391A	1312A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	65	111	161	209	228

Diesel engine



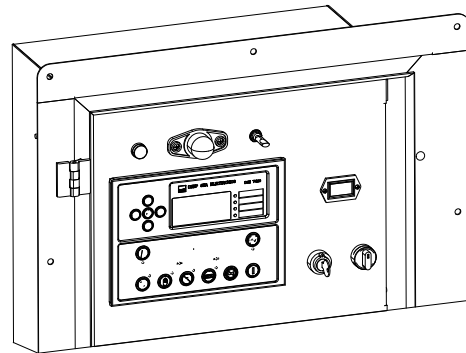
Engine Manufacturer/Brand	Cummins
Engine Model	KTA38-G5
Dimensions L×W×H	N/A
Dry Weigh (approx.)	3723kg
Number of Cylinders	12
Bore	159mm
Stroke	159mm
Displacement	37.8L
Compression Ratio	13.9
Type of injection	Direct
Intake System	Turbocharged
Intake Resistance	6.23kPa
Cooling System	Water cooled
Fan	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



Alternator Manufacturer/Brand	Leroy-somer
Alternator Model	LSA49.3L10
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

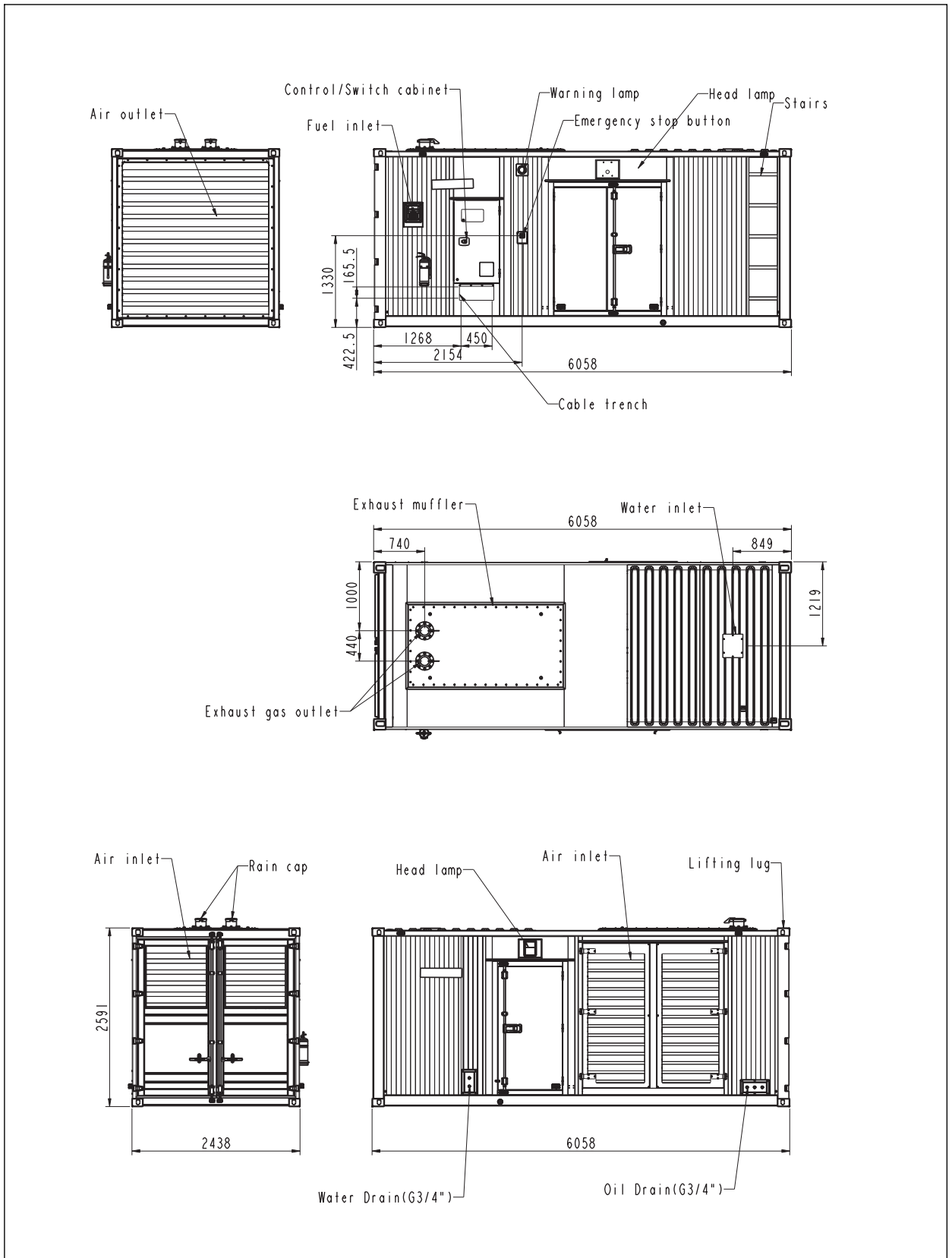
PLC-7420 Control System



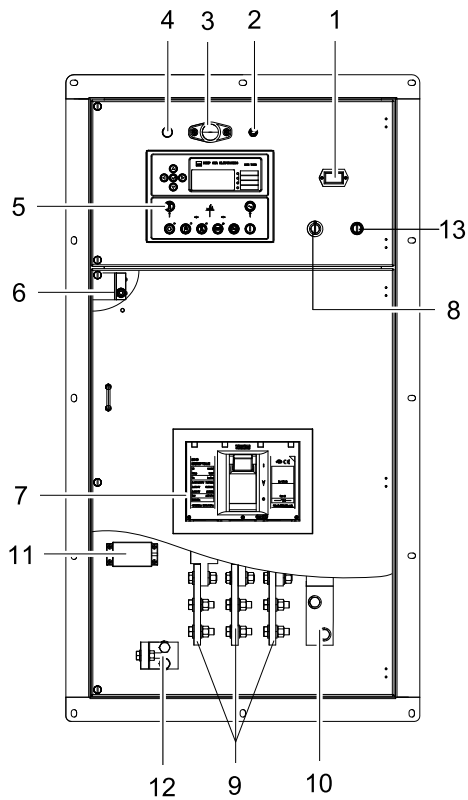
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

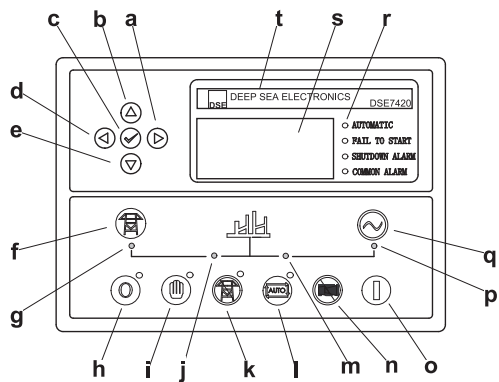
4 Overall Dimensions



5 Control System



Control & field wiring cabinet



Control module

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

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.,
contact Power Link or your local distributors please.*