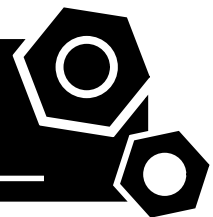


Generator set

Open type

GMS800C

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- China Compulsory Certification (CCC)
- ISO8528-5:2005
- GB/T2820.5-2009

Environmental Operating Conditions

- Installation place: 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 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.

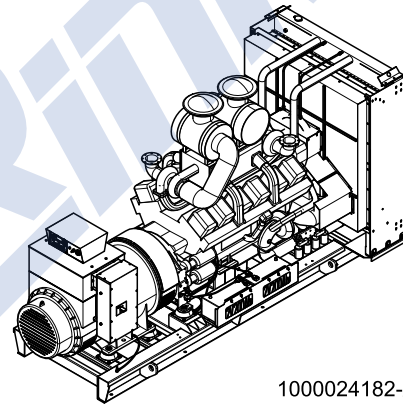
2 General Features

- Cummins engine KTA38-G2B
- Close coupled to a Stamford alternator LVI634C
- Microprocessor control module PLC-7420
- DMA main circuit breaker: 1250A
- Rotate speed governor: Electrical governor
- Excitation System: Self excited, SHUNT
- A.V.R. Model: MX321
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- 4x12V/200AH sealed for life maintenance free battery
- Lockable battery isolator switch
- 50°C radiator
- Oil pump on the engine
- Steel base frame with lifting lug
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

General technical data

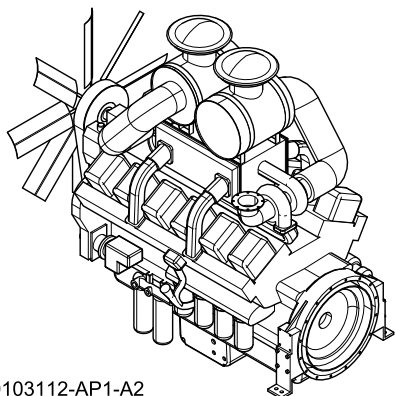


1000024182-AP1-A5

Model.....GMS800C
 Structure type A
 Dry weight..... 6662kg
 Sound pressure level @1m/ 7m N/A
 Sound power level acc. 2000/14/EC N/A
 Dimensions L×W×H..... 4394x1720x2425mm
 Standby Power 880kVA/704kW
 Prime Power 800kVA/640kW

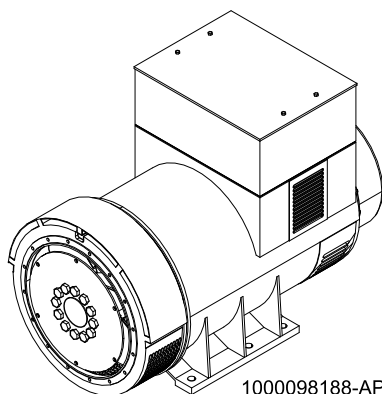
Voltage	380V	400V	415V	440V	
Ampere	1215.5A	1154.7A	1112.9A	1049.7A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	42	83	120	160	181

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1000103112-AP1-A2

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	KTA38-G2B
Dimensions L×W×H.....	2265.0x1379x2231.9
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.....	789kW
Prime Power.....	711kW
Fuel Consumption(100%load).....	160L/h

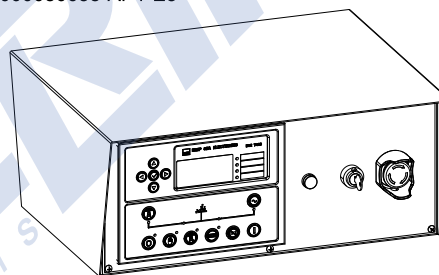


1000098188-AP1-A1

Alternator Manufacturer/Brand.....	Stamford
Alternator Model.....	LVI634C
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

1000080638-AP1-E3



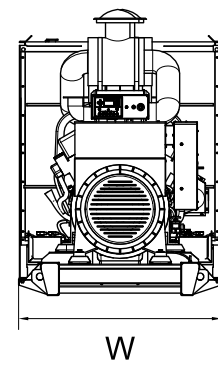
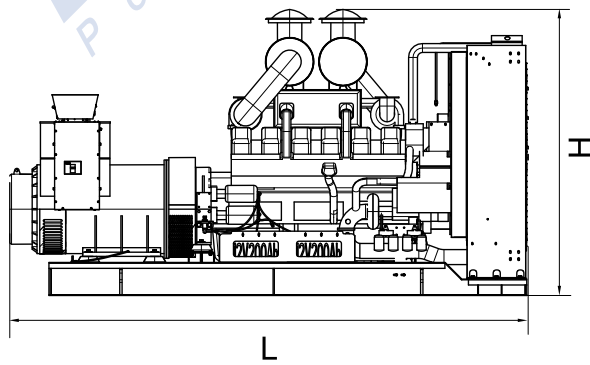
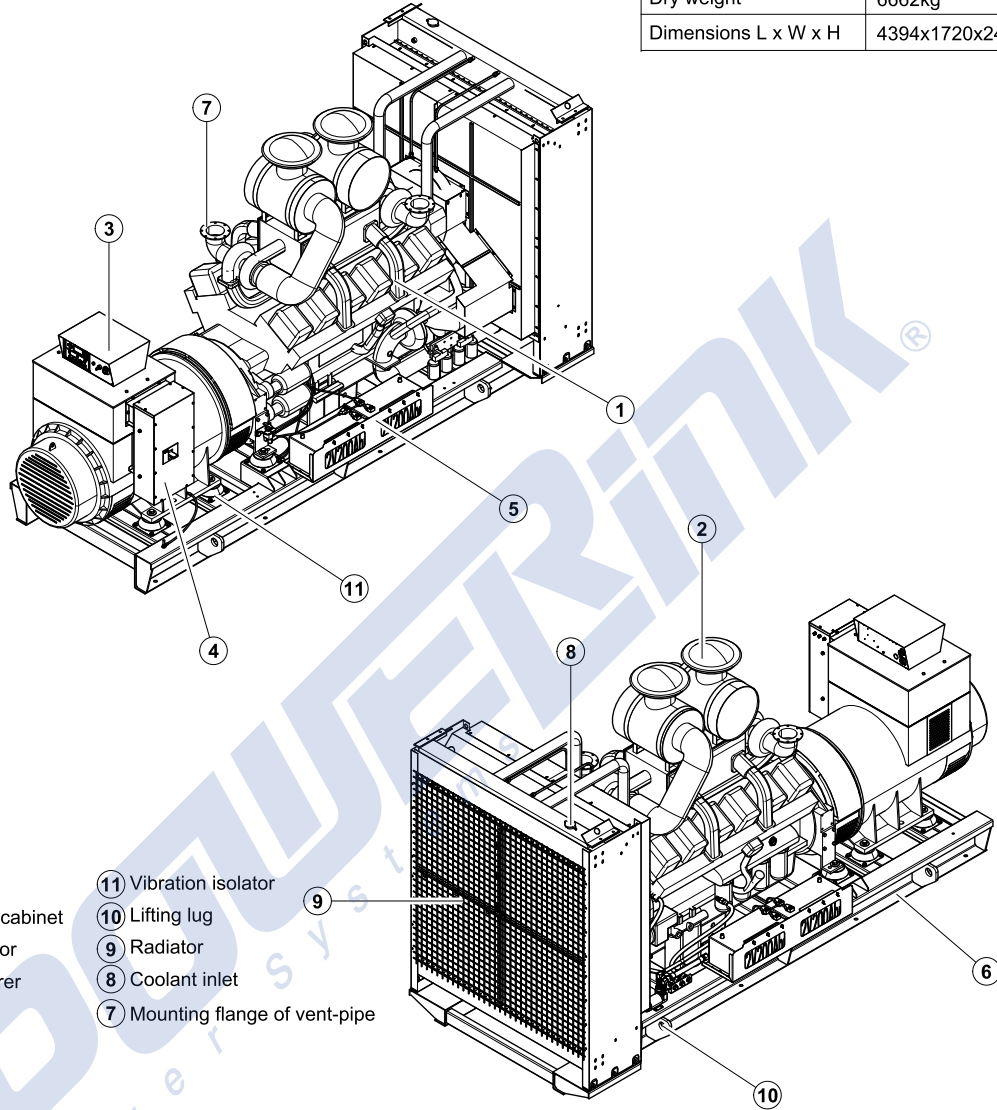
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

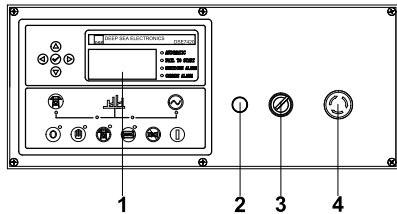
4 Overall Dimensions

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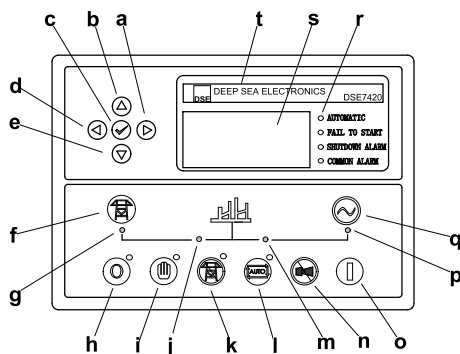
Dry weight	6662kg
Dimensions L x W x H	4394x1720x2425mm



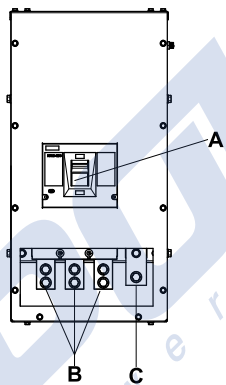
5 Control System



Control cabinet



Control Panel



Field wiring cabinet

Ref.	Description
1	PLC-7420 control module
2	Charge indicator
3	Key switch
4	Emergency stop 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

A	Main circuit breaker
B	Live wire terminals
C	Neutral wire terminal

100024182-A5-E

12.2013

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contact Power Link or your local distributors please.*