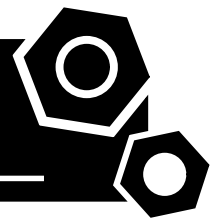


Generator set

Open type

GMS1250C

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.

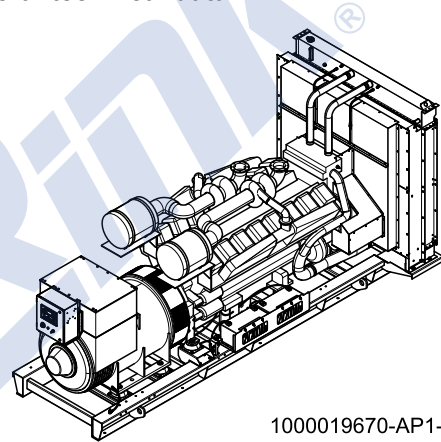
2 General Features

- Cummins engine KTA50-G3
- Close coupled to a Stamford alternator S6L1D-G3
- Microprocessor control module PLC-7420
- Rotate speed governor: Electronic governor FP801
- Excitation System: PMG
- A.V.R.Model: MX341
- 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
- Operation Manual / Specifications

3 Equipment Specification

General technical data

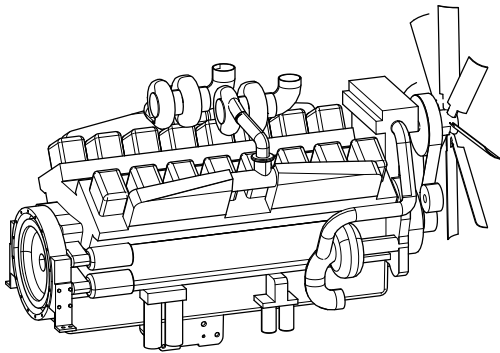


1000019670-AP1-A4

Model.....	GMS1250C
Structure type	A
Dry weight.....	9700kg
Noise level @7m	N/A
Sound power level acc. 2000/14/EC	N/A
Dimensions L×W×H.....	5081x2110x2295mm
Standby Power	1375kVA/1100kW
Prime Power	1250kVA/1000kW

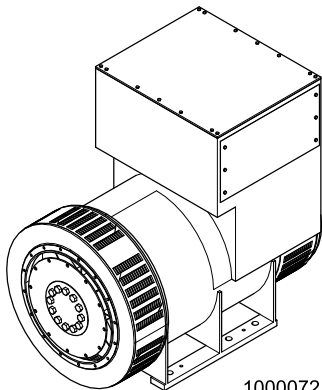
Voltage	380V	400V	415V	440V	
Ampere	1899A	1804A	1739A	1640A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	72.2	132	189	248.9	278.3

Dck Yf Grgh/a



1000098180-AP1-A2

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	KTA50-G3
Dimensions L×W×H.....	2885*1518.9*2005
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
Prime Power.....	1097kW
Fuel Consumption(100%load).....	261L/h

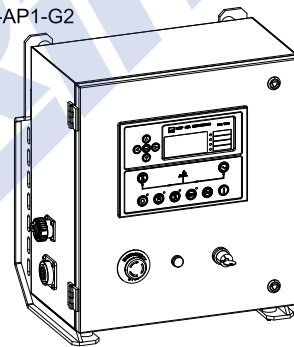


1000072165-AP1-A1

Alternator Manufacturer/Brand.....	Stamford
Alternator Model.....	S6L1D-G4
Exciter.....	Brushless
Cooling Fan.....	Cast alloy aluminum
Windings.....	100% copper
Insulation Class.....	H
Winding Pitch.....	2/3
Terminals.....	6
Drip Proof.....	IP23
Altitude.....	≤1000m
Overspeed.....	2250 rpm
Air Flow.....	1.95m³/s(50HZ),2.34m³/s(60HZ)
Voltage Regulation.....	±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

PLC-7420 Control System

1000089903-AP1-G2



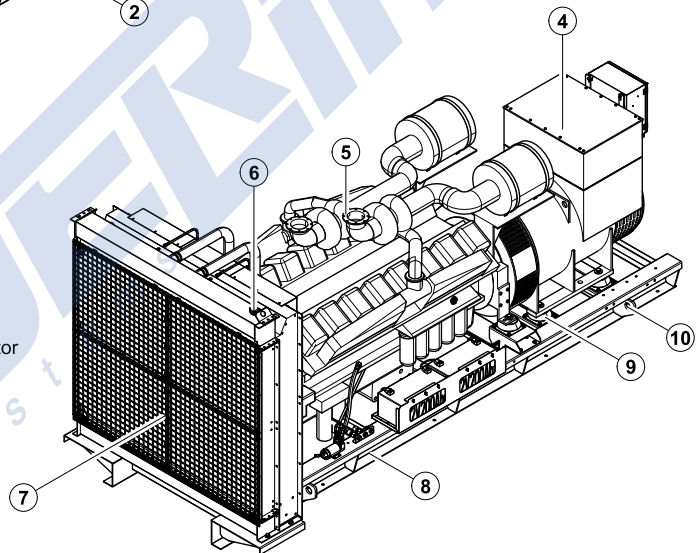
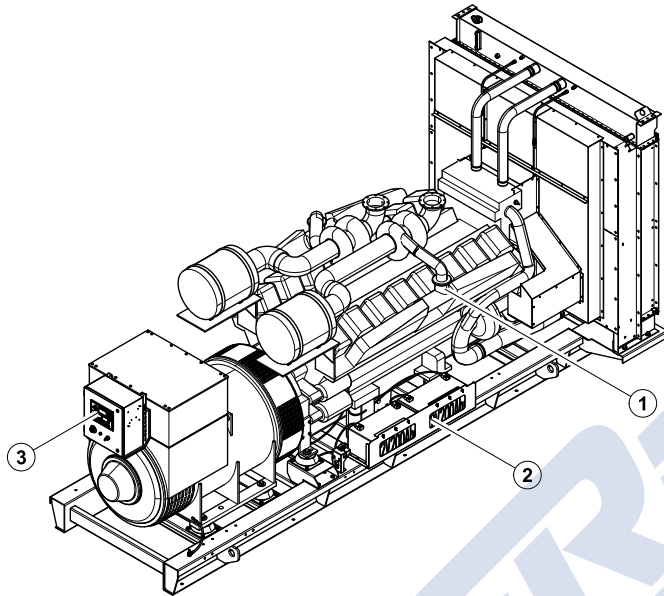
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

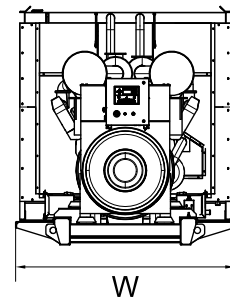
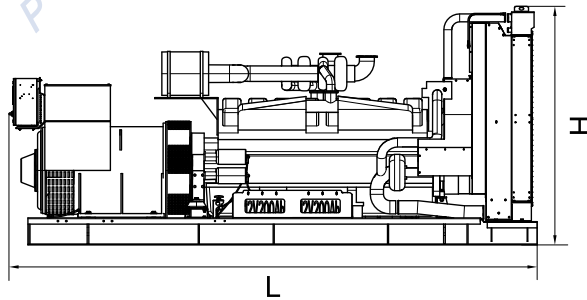
4 Overall Dimensions

1000019670-DR1-A4

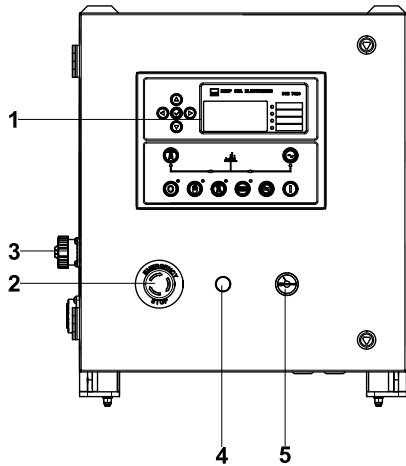
Dry weight	9700kg
Dimensions L x W x H	5081x2110x2295mm



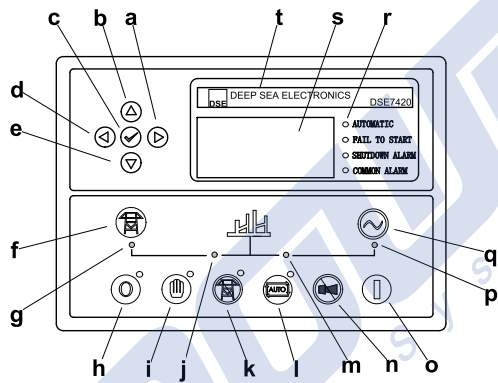
- ⑤ Mounting flange of ven-pipe
- ④ Alternator
- ③ Control cabinet
- ② Battery
- ① Engine
- ⑩ Lifting lug
- ⑨ Vibration isolator
- ⑧ Base frame
- ⑦ Radiator
- ⑥ Coolant inlet



5 Control System



Control cabinet



Control Module

Ref.	Description
1	PLC-7420 control module
2	Emergency stop switch
3	Mains input/remote/AMF communication connector
4	Charge indicator
5	Key switch

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

100019670
09.2023

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Power Systems

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