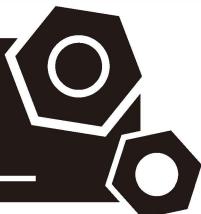


Generator set
Sound-proof type
GMS130CS-AU

SPECIFICATIONS



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1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- China Compulsory Certification (CCC)
- ISO8528-5:2005
- GB/T2820.5-2009
- AS 3000-1997
- AS 3010.1-1988

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.

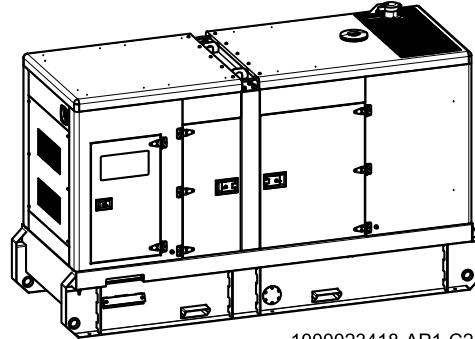
2 General Features

- Cummins engine 6BTAA5.9-G2
- Close coupled to a Stamford alternator UCI274E
- Microprocessor control module PLC-7320
- ABB main circuit breaker: 200A
- Rotate speed governor: Electrical governor S6700E
- Excitation System: Self excited,Shunt
- A.V.R.Model: SX460
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- Remote run connector
- 2x12V/72AH 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 forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 24 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation's Manual / Specifications

3 Equipment Specification

General technical data



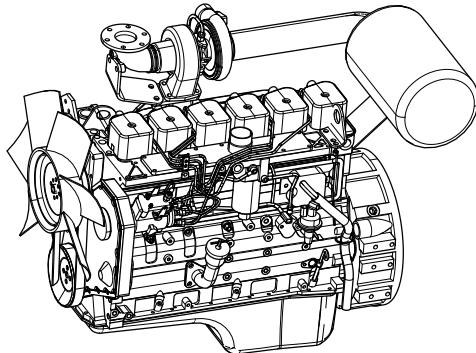
1000023418-AP1-C2

| | |
|--------------------------------|------------------|
| Model..... | GMS130CS-AU |
| Structure type | R |
| Tank capacity..... | 620L |
| Dry weight..... | 2257kg |
| Sound pressure level @7m | 71.5dB(A) |
| Dimensions L×W×H..... | 3312x1172x1974mm |
| Standby Power | 143kVA/114kW |
| Prime Power | 130kVA/104kW |
| Voltage/Ampere | 415V/181A |

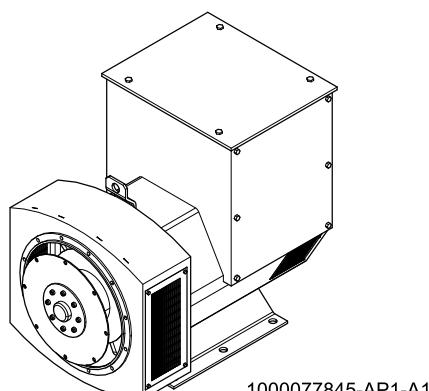
| Genset Fuel Consumption | | | | | |
|-------------------------|-----|------|------|------|------|
| Frequency/Load | 25% | 50% | 75% | 100% | 110% |
| 50Hz (L/h) | 9.0 | 16.0 | 23.0 | 30.0 | 34.0 |

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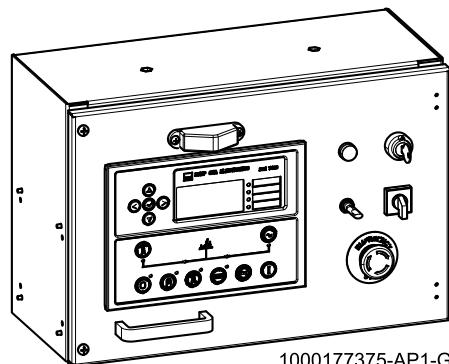
| | |
|---------------------------------|---------------------------------------|
| Engine Manufacturer/Brand..... | Cummins |
| Engine Model..... | 6BTAA5.9G2 |
| Dimensions L×W×H..... | 1184.7*655.7*981.3 |
| Dry Weigh (approx.) | 411kg |
| Number of Cylinders..... | 6 |
| Bore | 102mm |
| Stroke | 120mm |
| Displacement..... | 5.9L |
| Compression Ratio..... | 16.8 |
| Type of injection..... | Direct injection |
| Intake System..... | Turbocharged,air-to-air charge cooled |
| Intake Resistance..... | $\leq 6.28\text{kPa}$ |
| Cooling System | Water cooled |
| Fan | Pusher |
| Battery Voltage | 12/24V |
| Type of Fuel..... | Diesel |
| Type of Oil | 15W40-CF4 |
| Oil Capacity | 14.2L |
| Type of Coolant | Glycol mixture |
| Coolant Capacity | 34L |
| Back Pressure | $\leq 10.1\text{kPa}$ |
| Standby Power | 130kW |
| Prime Power | 120kW |
| Fuel Consumption(100%load)..... | 208g/kW.h |



1000077845-AP1-A1

| | |
|-----------------------------------------------------------|-----------------------------------------------------------|
| Alternator Manufacturer/Brand | Stamford |
| Alternator Model | UCI274E |
| Exciter..... | Brushless |
| Cooling Fan | Cast alloy aluminum |
| Windings | 100% copper |
| Insulation Class | H |
| Winding Pitch..... | 2/3 |
| Terminals | 12 |
| Drip Proof | IP23 |
| Altitude..... | $\leq 1000\text{m}$ |
| Overspeed | 2250 rpm |
| Air Flow..... | 0.514m ³ /s(50HZ),0.617m ³ /s(60HZ) |
| Voltage Regulation | $\pm 1.0\%$ |
| Total harmonic TGH / THCat no load < 1.5 % - on load < 5% | |
| Telephone Interference..... | THF<2%;TIF<50 |

PLC-7420 Control System



1000177375-AP1-G2

PLC-7420 is an advanced control module based on microprocessor, 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

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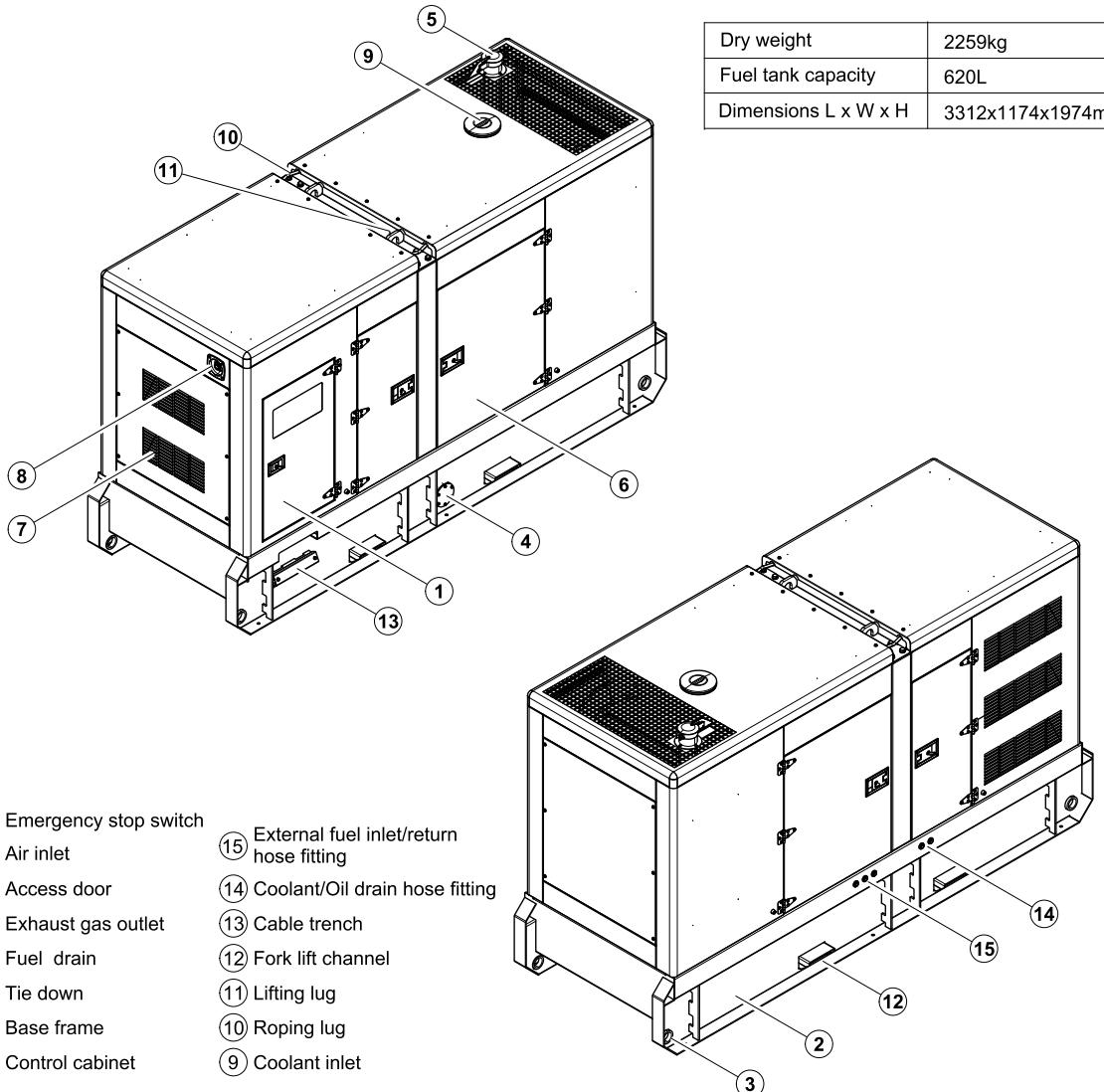
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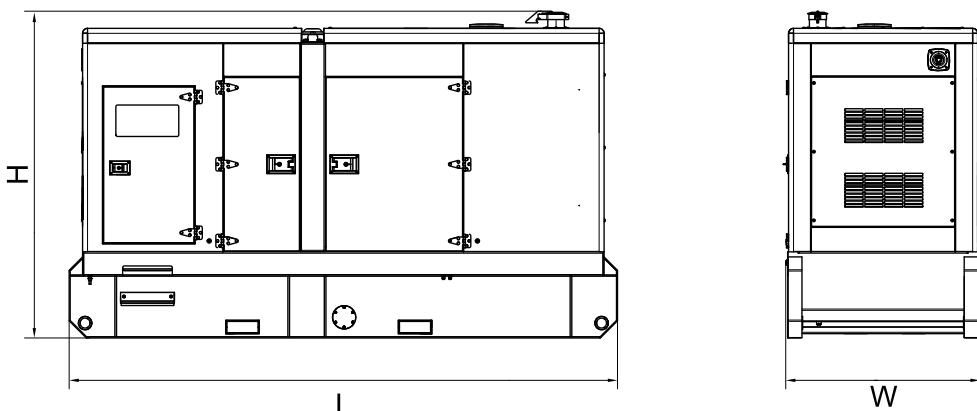
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4 Overall Dimensions

1000023418-DR1-C2



| | |
|----------------------|------------------|
| Dry weight | 2259kg |
| Fuel tank capacity | 620L |
| Dimensions L x W x H | 3312x1174x1974mm |



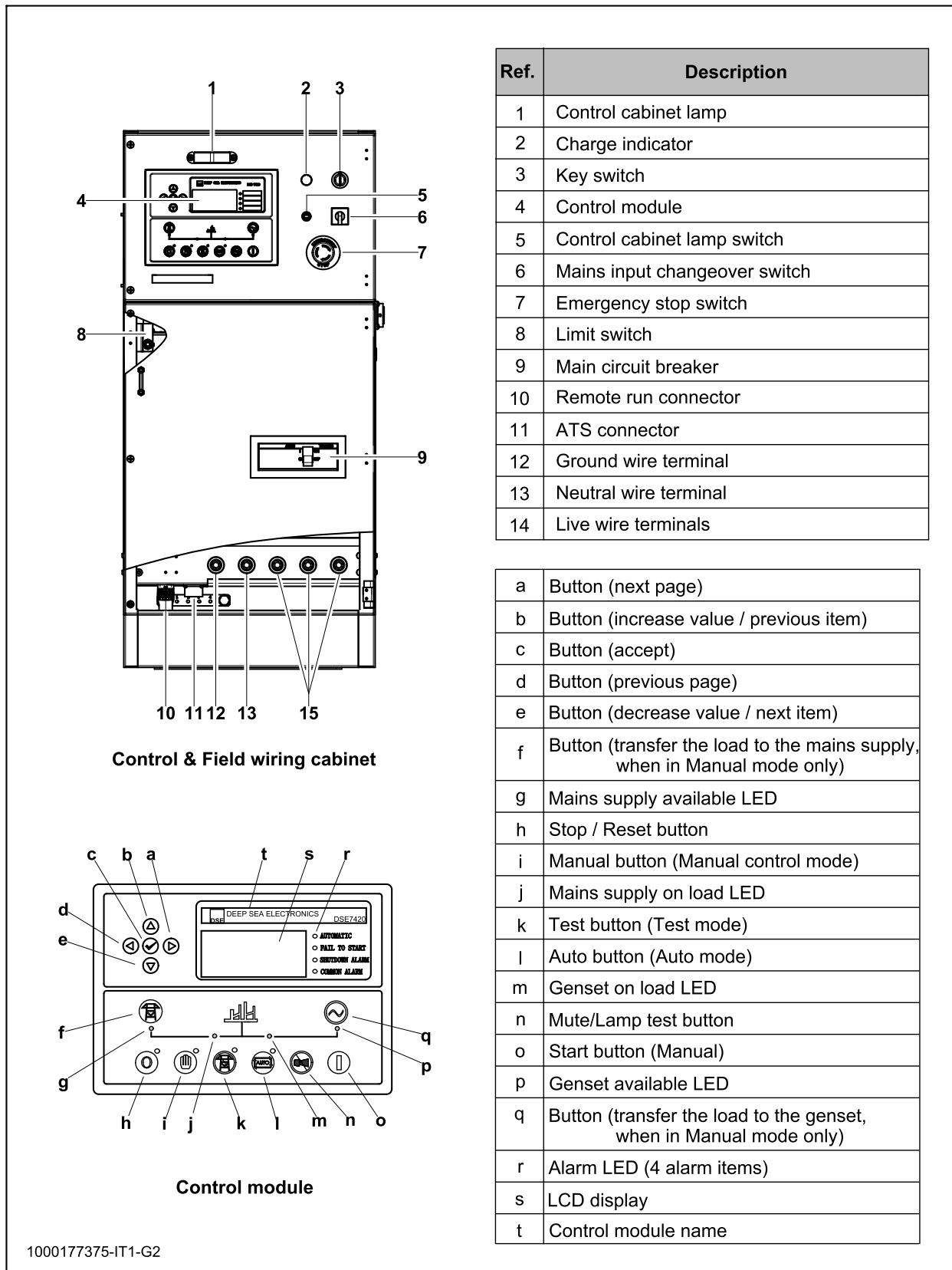
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5 Control System



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<http://www.powerlinkworld.com>

*Specification may change without prior notice. For more info.,
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