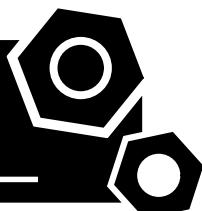


Generator set

Open type

GMS30C

SPECIFICATIONS



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

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.

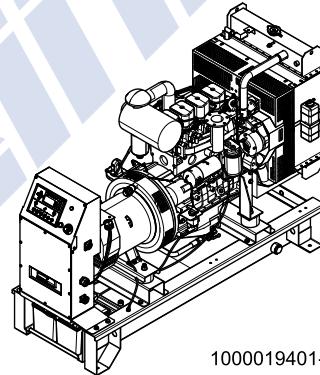
2 General Features

- Cummins engine 4B3.9-G1
- Close coupled to a Stamford alternator PI144G
- Microprocessor control module PLC-7420
- NADER main circuit breaker: 50A
- R.C.D.
- Rotate speed governor: Mechanical governor
- Excitation system: Self excited, SHUNT
- A.V.R model: AS480
- Key switch
- Emergency stop switch

- ATS (automatic transfer switch) receptacle
- 2x12V/70AH sealed for life maintenance free battery
- Lockable battery isolator switch
- 50°C radiator
- Oil pump on the engine
- Steel base frame with lifting lugs
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 18 hours running
- Drain points for fuel tank
- Operator's Manual / Specifications

3 Equipment Specification

General technical data

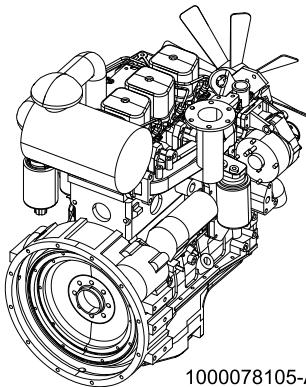


1000019401-AP1-B3

Model.....	GMS30C
Structure type	D
Tank capacity.....	120L
Dry weight.....	731kg
Sound pressure level @1m/ 7m	N/A
Sound power level acc. 2000/14/EC	N/A
Dimensions L×W×H.....	1896x704x1399mm
Standby Power	32kVA/26kW
Prime Power	30kVA/24kW

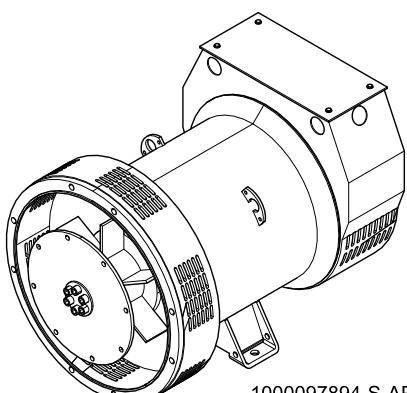
Voltage	380V	400V	415V	440V
Ampere	45.5A	43.3A	41.7A	39.3A
Genset Fuel Consumption				
Frequency/Load	25%	50%	75%	100%
50Hz (L/h)	2.7	4	5.2	6.7
				7.5

Dck Yf GnghYa



1000078105-AP1-A10

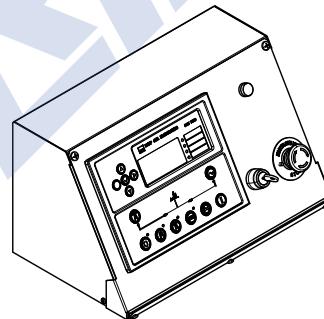
Engine Manufacturer/Brand.....	Cummins
Engine Model.....	4B3.9G1
Dimensions L×W×H.....	765×582×908mm
Dry Weigh (approx.)	308kg
Number of Cylinders.....	4
Bore	102mm
Stroke	120mm
Displacement.....	3.9L
Compression Ratio.....	16.5
Type of injection.....	Direct injection
Intake System.....	Natural aspirated
Intake Resistance.....	$\leq 4.98\text{kPa}$
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12/24V
Type of Fuel.....	0# or ASTM2
Type of Oil	API-CG4/CH4 or ACEA-E3/E5
Oil Capacity	9.5L
Type of Coolant	Glycol mixture
Coolant Capacity	19.6L
Back Pressure	$\leq 10.1\text{kPa}$
Standby Power	27kW
Prime Power	24kW
Fuel Consumption(100%load).....	229g/kW.h



1000097894-S-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	PI144G
Exciter.....	Brushless
Cooling Fan	Synthetic plastic
Windings	100% copper
Insulation Class	H
Winding Pitch.....	2/3
Terminals	12
Drip Proof	IP23
Altitude.....	$\leq 1000\text{m}$
Overspeed	2250rpm
Air Flow.....	0.100 m^3/sec (50Hz), 0.122 m^3/sec (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



1000094350-AP1-C2

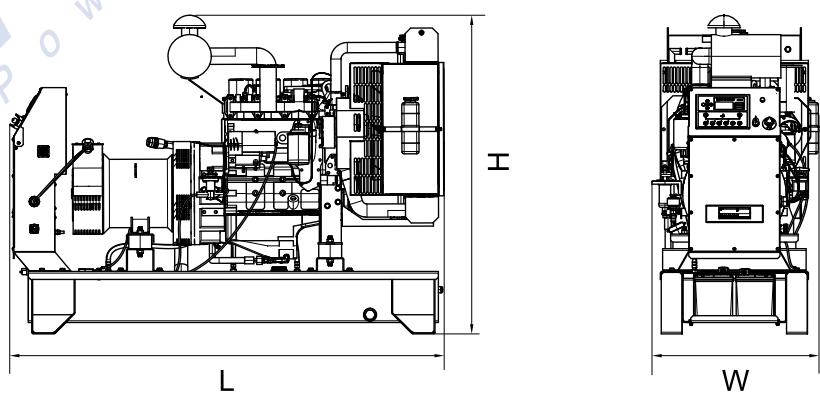
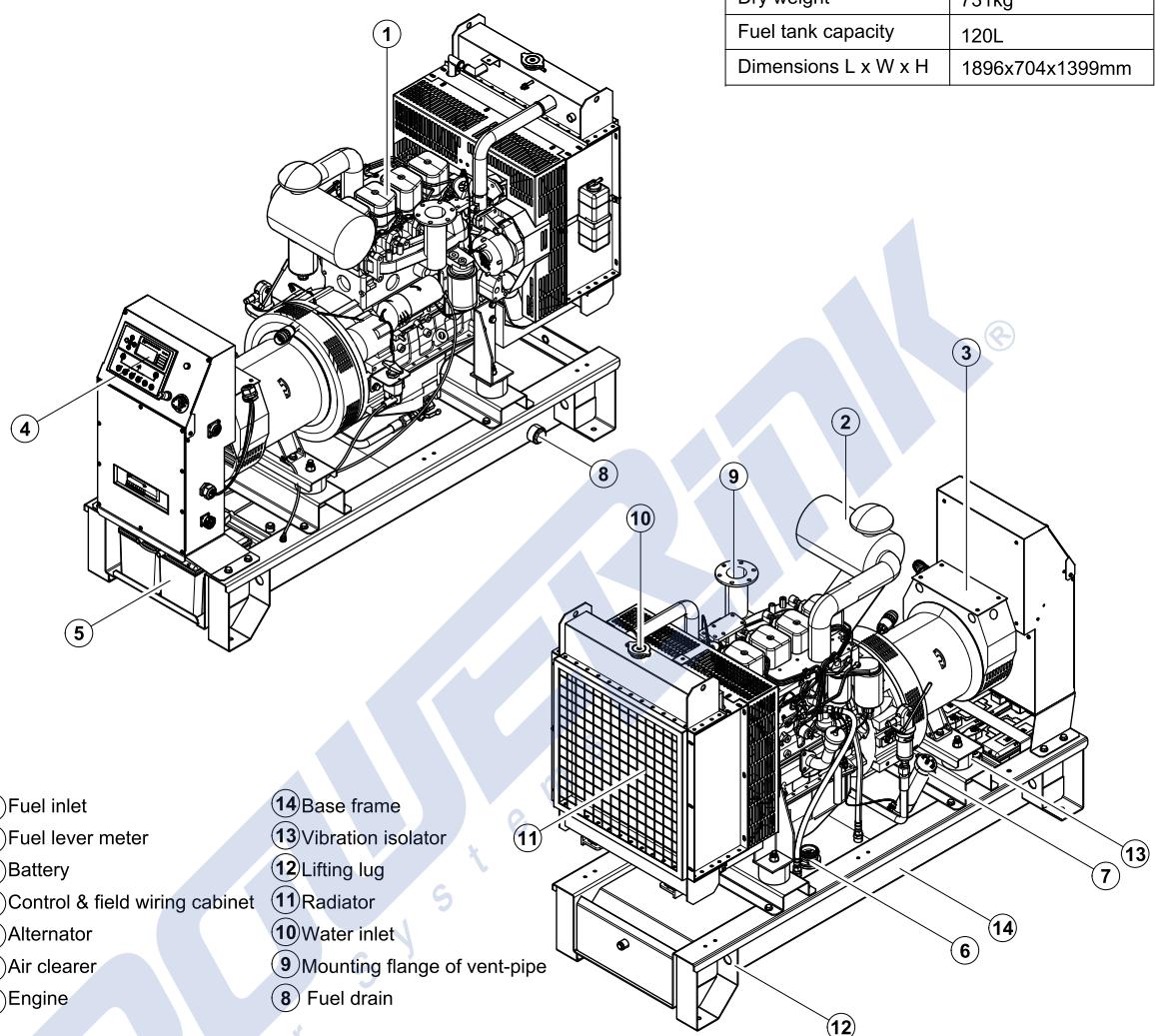
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

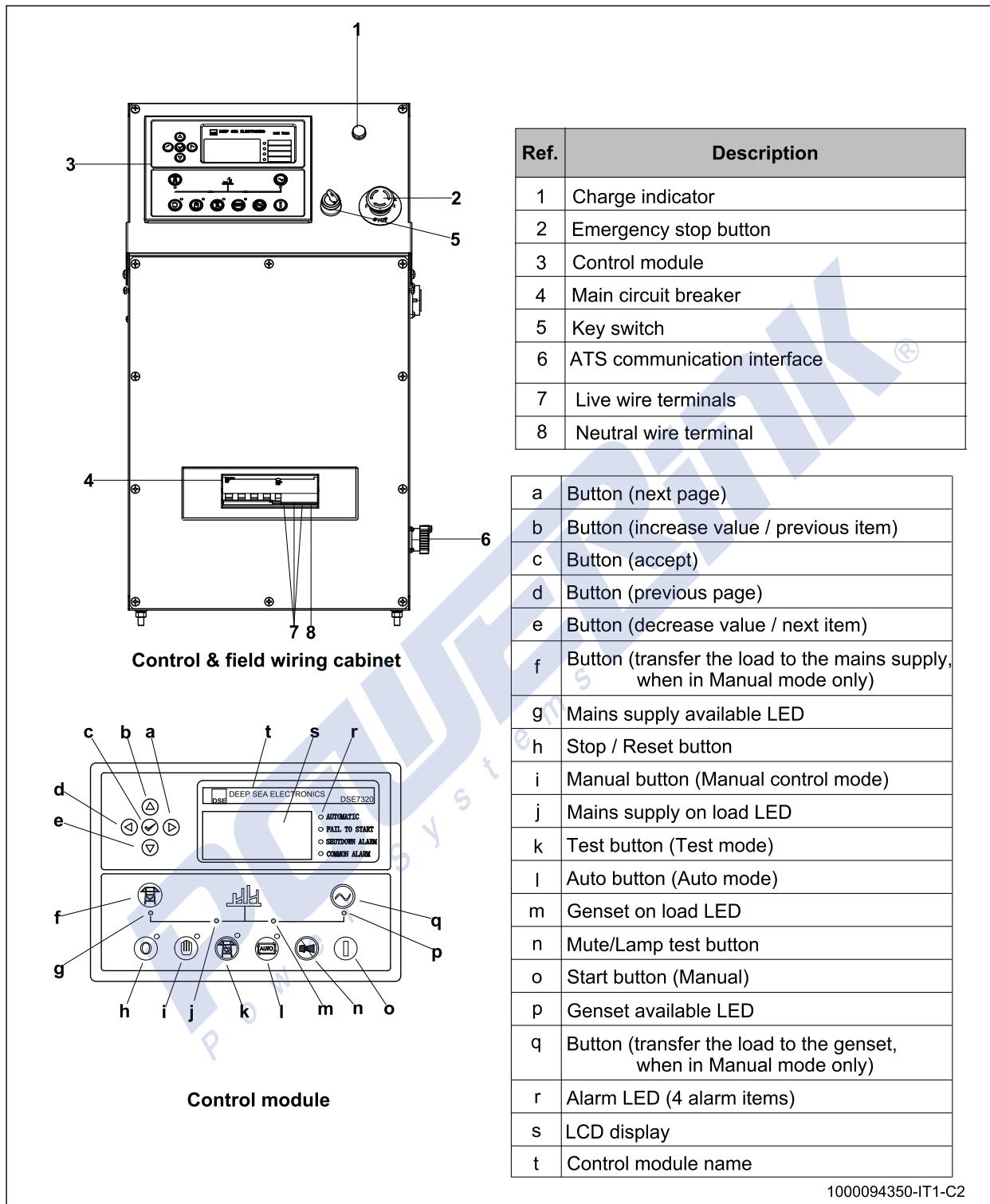
4 Overall Dimensions

1000019401-DR1-B3

Dry weight	731kg
Fuel tank capacity	120L
Dimensions L x W x H	1896x704x1399mm



5 Control System



1000019401-B3-E

03.2014



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