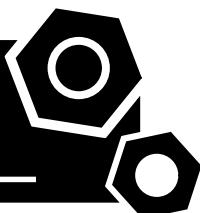


**Generator set**

**Open type**

**GMS500C**

# **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

- 2x12V/150AH 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 8 hours running
- Drain points for fuel tank
- Operator's Manual / Specifications

### 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

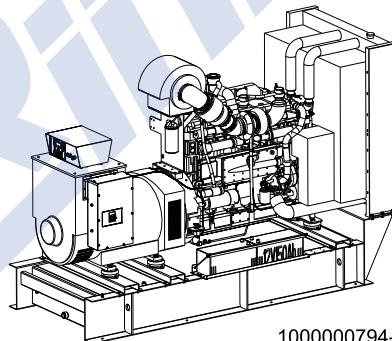
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

## 2 General Features

- Cummins engine KTA19G4
- Close coupled to a Stamford alternator HCI544D
- Microprocessor control module PLC-7320
- NADER main circuit breaker: 800A
- Rotate speed governor: Electrical governor FP801
- Excitation system: Self excited
- A.V.R model: AS440
- Key switch
- ATS (automatic transfer switch) receptacle

## 3 Equipment Specification

### General technical data



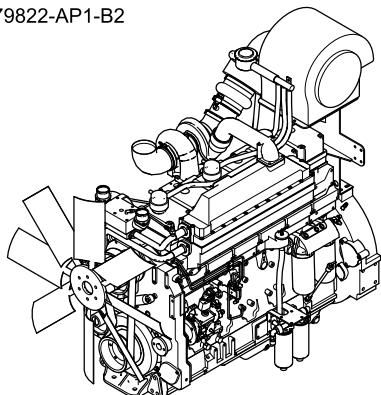
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Model.....	GMS500C
Structure type .....	A
Tank capacity.....	940L
Dry weigh.....	4243kg
Noise level @7m .....	N/A
Dimensions L×W×H.....	3385×1460×2194mm
Standby Power .....	575kVA/460kW
Prime Power .....	500kVA/400kW

Voltage	380V	400V	415V	440V
Ampere	759.7A	721.7A	695.6A	656.1A
<b>Genset Fuel Consumption</b>				
Frequency/Load	25%	50%	75%	100%
50Hz (L/h)	30	57	82	107
				121

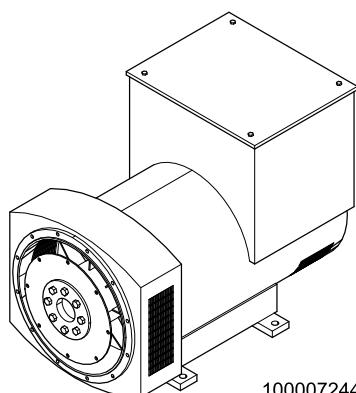
## Diesel Engine

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Engine Manufacturer/Brand.....	Cummins
Engine Model.....	KTA19G4
Dimensions L×W×H.....	2141.9×879.8×1733.5mm
Dry Weigh (approx.) .....	1855kg
Number of Cylinders.....	6
Bore .....	159mm
Stroke .....	159mm
Displacement.....	18.9L
Compression Ratio.....	14.5
Type of Injection .....	Direct
Intake System.....	Turbo charged
Intake Resistance.....	≤6.23kPa
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage .....	24V
Type of Fuel.....	NO.2 or ASTM D2
Type of Oil .....	API CD/SE or CCMCD4
Oil Capacity .....	.50L
Type of Coolant .....	Glycol mixture
Coolant Capacity .....	.250L
Back Pressure .....	≤10.1kPa
Standby Power .....	.504kW
Prime Power .....	.448kW
Fuel Consumption(100%load).....	107L/h

## Alternator

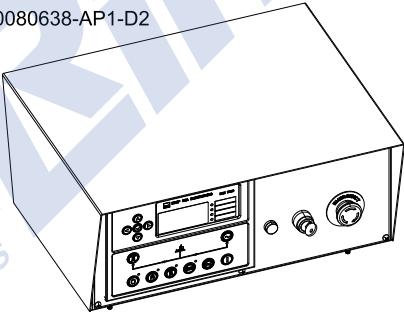


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Alternator Manufacturer/Brand .....	Stamford
Alternator Model .....	HCI544D
Exciter.....	Brushless
Cooling Fan .....	Cast alloy aluminum
Windings.....	100% copper
Insulation Class .....	H
Winding Pitch.....	.2/3
Terminals .....	12
Drip Proof .....	IP23
Altitude.....	≤1000m
Overspeed .....	2250 rpm
Air Flow.....	1.035m³/s(50HZ),1.312m³/s(60HZ)
Voltage Regulation .....	±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

## PLC-7320 Control System

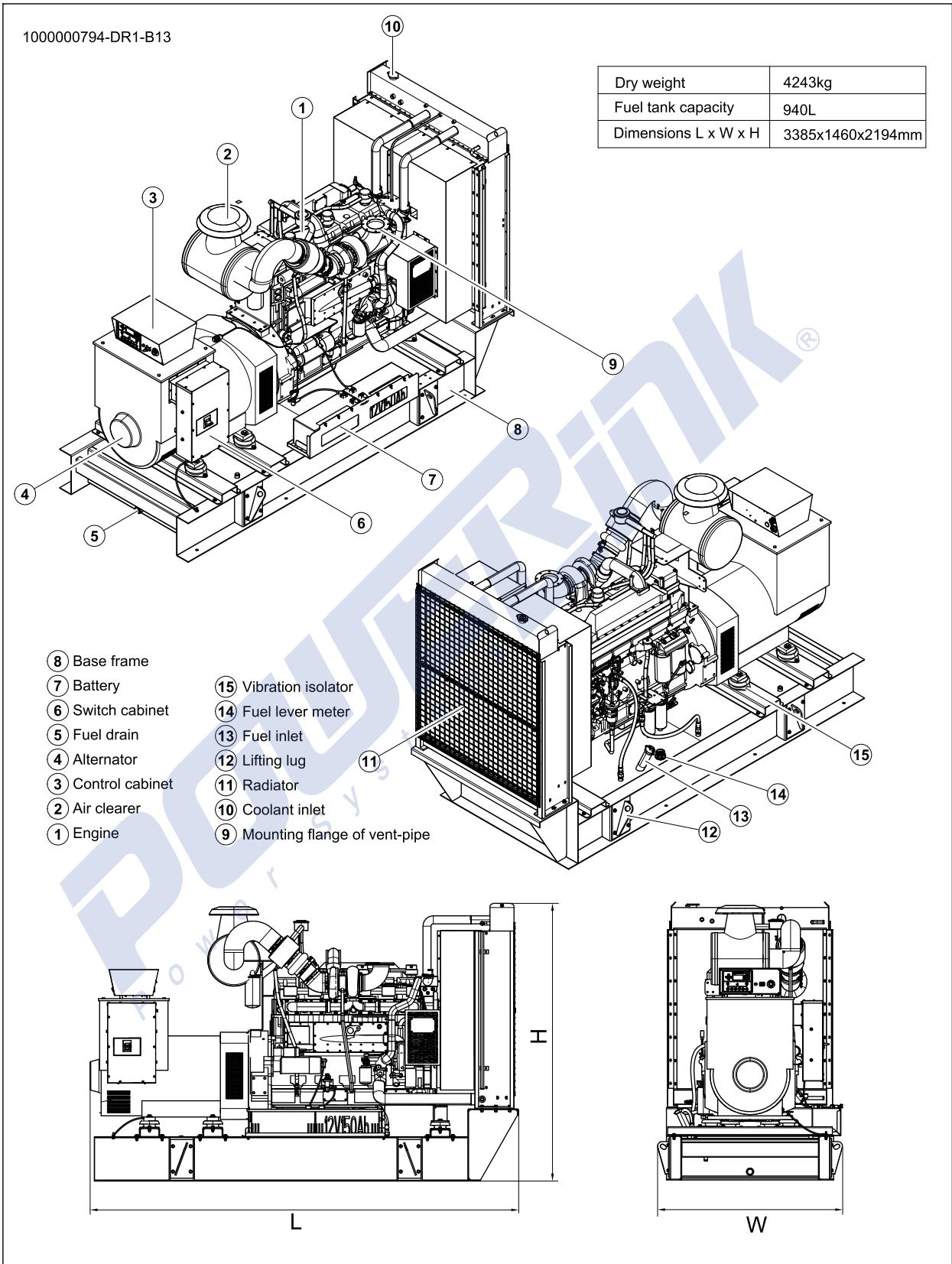
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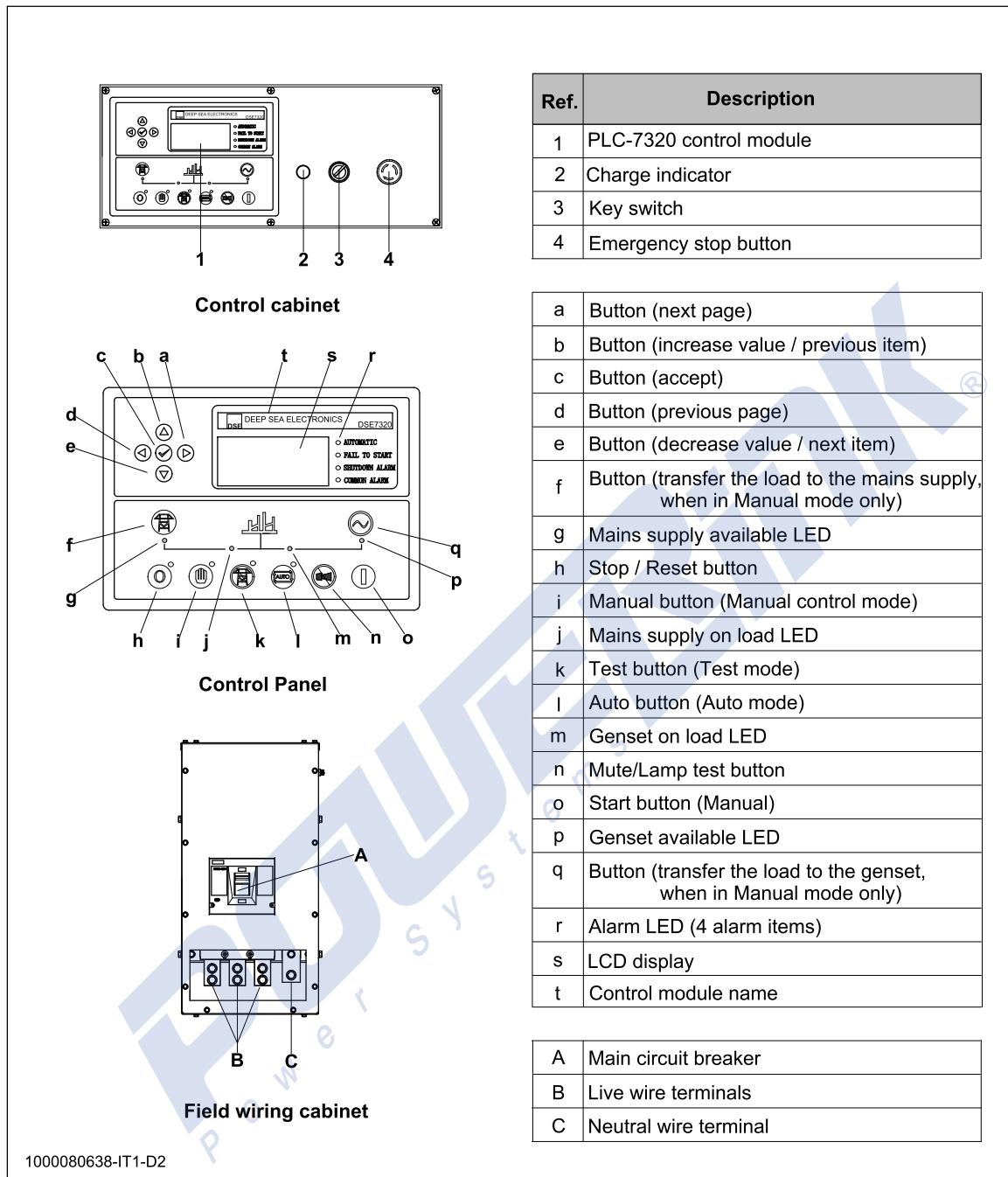
PLC-7320 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and 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

## 4 Overall Dimensions



## 5 Control System



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08.2012



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