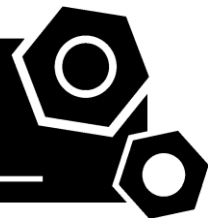


Generator set  
Sound-proof type  
**DT500C5S-AU**

# SPECIFICATIONS



# DTC-AU series DT500C5S-AU

50 Hz @ 1500rpm,3-phase/4-wiring



## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- ISO8528-5:2005
- AS 3000-2018
- AS 3010-2017

### 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.

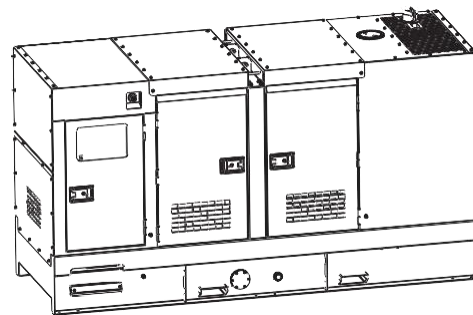
## 2 General Features

- Cummins engine QSZ13-G3
- Close coupled to Stamford alternator S5L1D-D4
- Microprocessor control module PLC-920
- Schneider main circuit breaker: 800A
- Rotate speed governor: Electrical governor
- Excitation system: Self excited, SHUNT
- A.V.R model: AS440
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- Remote run connector
- 2x12V/150AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Steel base frame
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 12 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

## 3 Equipment

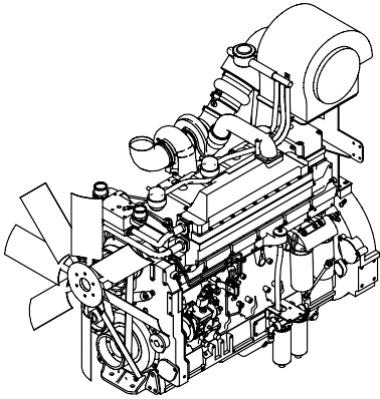
### General technical data



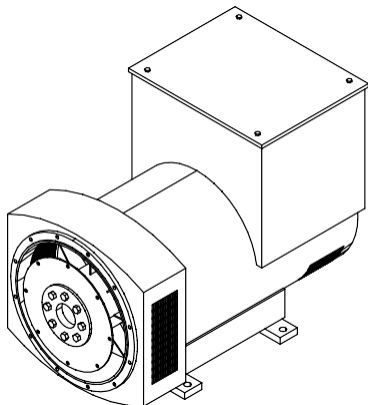
Model ..... DT500C5S-AU  
 Fuel tank ..... 1200L  
 Dry weight ..... 4780kg  
 Sound pressure level @ 7m ..... 74.0dBA  
 Dimensions LxWxH ..... 3950x1300x1980mm  
 Standby Power ..... 550kVA/440kW  
 Prime Power ..... 500kVA/400kW

Voltage	380V	400V	415V		
Ampere	759.7A	721.7A	695.6A		
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	26	48.9	74.2	101	105.5

### 3RZHU 6VWHP

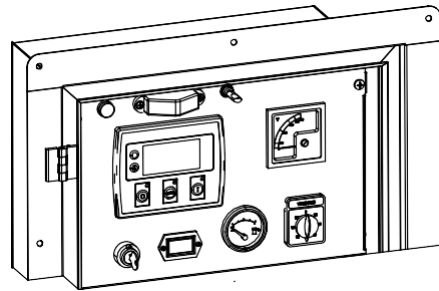


Engine Manufacturer/Brand .....	Cummins
Engine Model.....	QSZ13-G3
Dimensions LxWxH .....	1396x1049x1232mm
Dry Weigh (approx.) .....	1245kg
Number of Cylinders.....	6
Bore.....	130mm
Stroke.....	163mm
Displacement .....	13.0L
Compression Ratio .....	17
Type of Injection.....	Direct
Intake System .....	Turbo charged
Intake Resistance .....	≤ 6.23kPa
Cooling System.....	Water cooled
Fan .....	Pusher
Battery Voltage.....	V
Type of Fuel.....	NO.2 or ASTM D2
Type of Oil .....	API CD/SE or CCMCD4
Oil Capacity .....	23L
Type of Coolant.....	Glycol mixture
Coolant Capacity .....	250L
Back Pressure .....	≤ 10.1kPa
Standby Power.....	470kW
Prime Power.....	450kW



Alternator Manufacturer/Brand.....	Stamford
Alternator Model .....	S5L1D-D4
Exciter .....	Brushless
Cooling Fan.....	Cast alloy aluminum
Windings.....	100% copper
Insulation Class.....	H
Winding Pitch .....	2/3
Terminals.....	12
Drip Proof.....	P23
Altitude.....	≤1000m
Overspeed .....	2250rpm
Air Flow.....	N/A
Voltage Regulation .....	±1.0%
Total Harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

### PLC-920 Control System

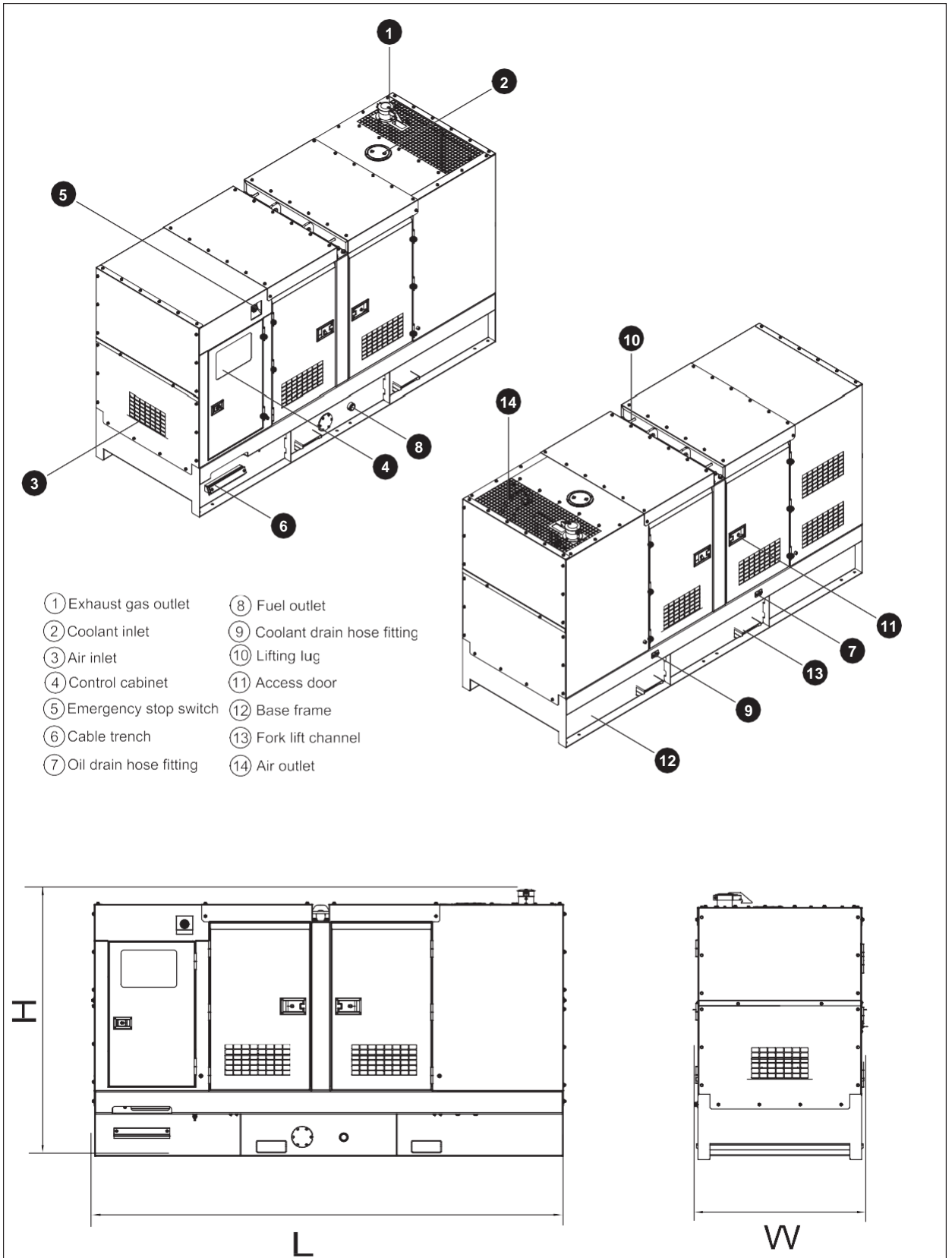


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first fault condition of an engine failure.

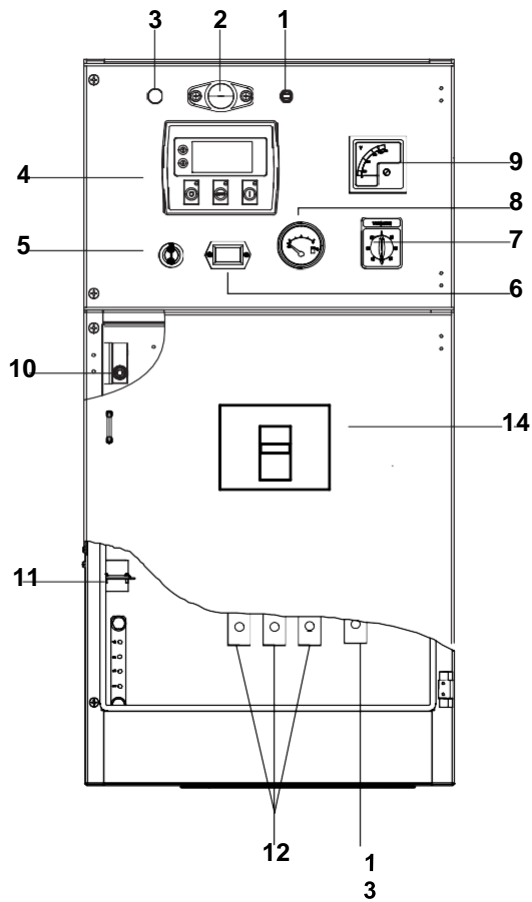
#### Standard Control Function

- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection hold-off timer
- Charge Failure warning

## 4 Overall Dimensions

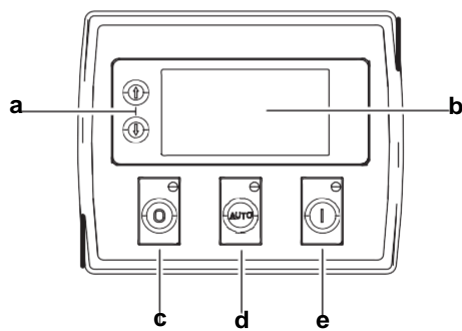


## 5 Control System



**Control & field wiring cabinet**

Ref.	Description
1	Control cabinet lamp switch
2	Control cabinet lamp
3	Charge indicator
4	Control module
5	Key switch
6	Time counter
7	Voltage changer-over switch
8	Fuel level meter
9	Voltage meter
10	Limit switch
11	Mains input/Remote control/ATS connector
12	Live wire terminal
13	Neutral wire terminal
14	Main circuit breaker



**Control module**

Ref.	Description
a	Navigation button«» Accept (Configuration mode only)
b	Main status display
c	Stop/reset button«» Next page (Configuration mode only)
d	Auto start button«» Decrease value/next item (Configuration mode only)
e	Start button«» Increase value/next item (Configuration mode only)

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