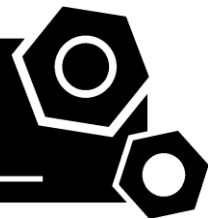


Generator set  
Sound-proof type  
**DT320C5S-AU**

# SPECIFICATIONS



# DTC-AU series DT320C5S-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.

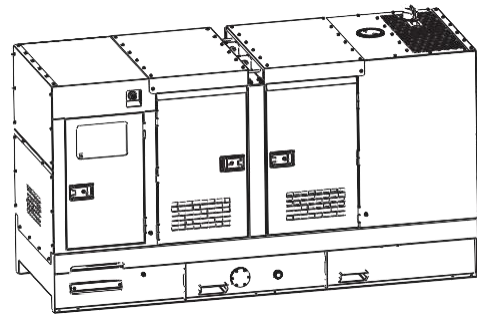
## 2 General Features

- Cummins engine 6LTAA9.5-G1
- Close coupled to Stamford alternator HCI444ES
- Microprocessor control module PLC-920
- Schneider main circuit breaker: 500A
- Rotate speed governor: Electrical governor
- Excitation system: Self excited, SHUNT
- A.V.R model: AS480
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- Remote run connector
- 2x12V/120AH 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 14 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

## 3 Equipment

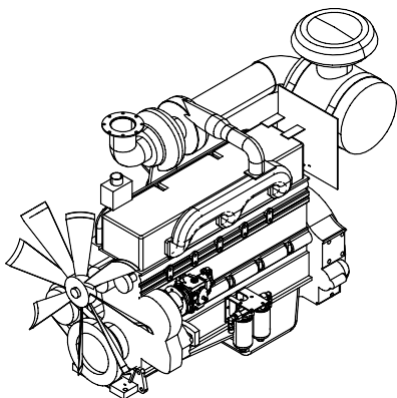
### General technical data



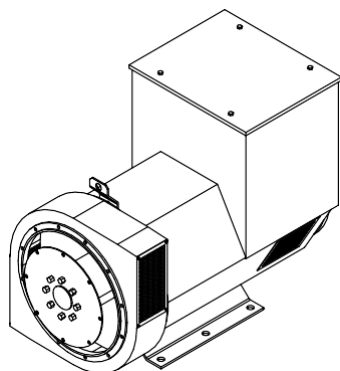
Model ..... DT320C5S-AU  
 Fuel tank ..... 1000L  
 Dry weight ..... 3860kg  
 Sound pressure level @ 7m ..... 72.0dBA  
 Dimensions LxWxH ..... 3950x1300x1980mm  
 Standby Power ..... 350kVA/280kW  
 Prime Power ..... 320kVA/256kW

| Voltage                 | 380V   | 400V   | 415V   |      |      |
|-------------------------|--------|--------|--------|------|------|
| Ampere                  | 486.2A | 461.9A | 445.2A |      |      |
| Genset Fuel Consumption |        |        |        |      |      |
| Frequency/Load          | 25%    | 50%    | 75%    | 100% | 110% |
| 50Hz (L/h)              | 18     | 35     | 52     | 70   | 78   |

### 3RZHU 6VWHP

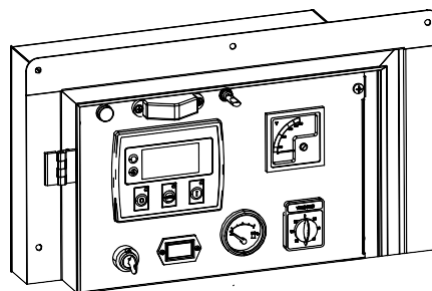


|                                 |                       |
|---------------------------------|-----------------------|
| Engine Manufacturer/Brand ..... | Cummins               |
| Engine Model.....               | 6LTA A9.5-G1          |
| Dry Weigh (approx.) .....       | 791Kg                 |
| Number of Cylinders.....        | 6                     |
| Bore.....                       | 116.5mm               |
| Stroke.....                     | 148mm                 |
| Displacement .....              | 9.5L                  |
| Type of injection.....          | Direct injection      |
| Intake System .....             | Turbocharged          |
| Intake Resistance .....         | ≤6.22kPa              |
| Cooling System.....             | Water cooled          |
| Fan .....                       | Pusher                |
| Battery Voltage.....            | V                     |
| Type of Fuel.....               | No.2-D per ASTM D975. |
| Type of Oil .....               | API CD/SE or CCMCD4   |
| Oil Capacity .....              | 32.4L                 |
| Type of Coolant.....            | Glycol mixture        |
| Coolant Capacity .....          | 11.1L                 |
| Back Pressure.....              | ≤10kPa                |
| Standby Power.....              | 320kW                 |
| Prime Power.....                | 290kW                 |



|   |                     |
|---|---------------------|
| Alternator Manufacturer/Brand.....                        | Stamford            |
| Alternator Model.....                                     | HCI444ES            |
| 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

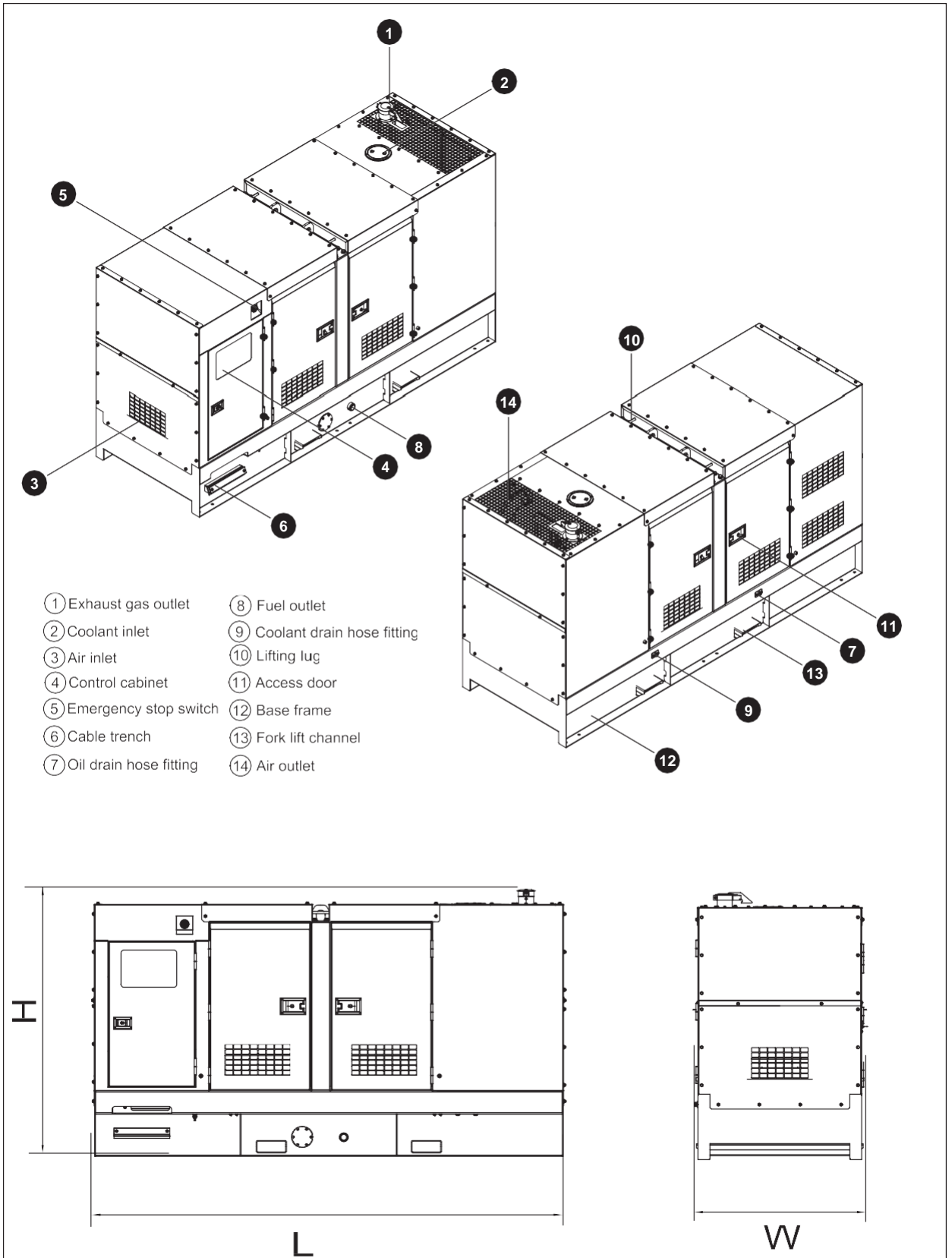


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true firep fault condition of an engine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

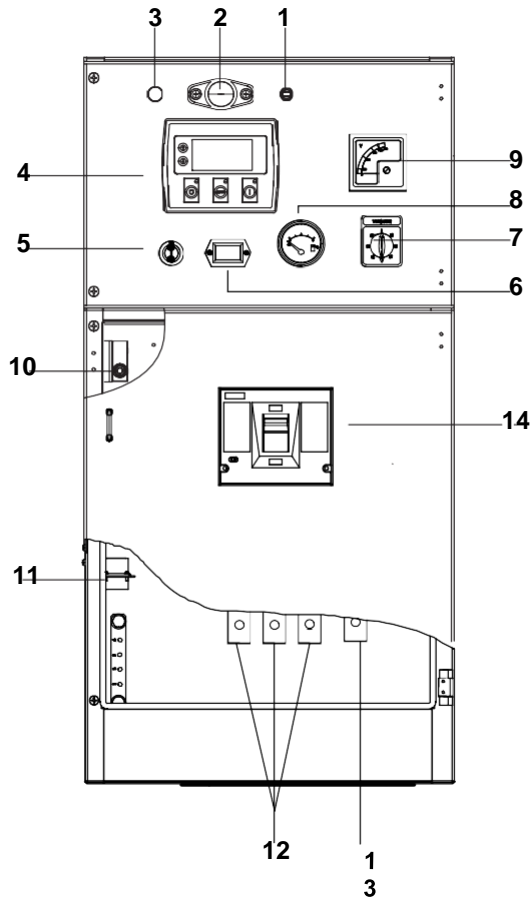
#### Standard Control Function

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

## 4 Overall Dimensions

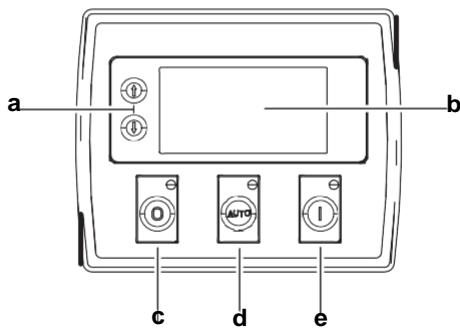


## 5 Control System



**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 «»<br>Accept (Configuration mode only)                   |
| b    | Main status display  |
| c    | Stop/reset button «»<br>Next page (Configuration mode only)                |
| d    | Auto start button «»<br>Decrease value/next item (Configuration mode only) |
| e    | Start button «»<br>Increase value/next item (Configuration mode only)      |

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| 10.2020 |
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*Specification may change without prior notice. For more info.,  
contact Gogopower or your local distributors please.*