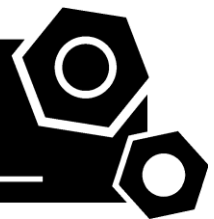


Generator set
Sound-proof type
DT100C5S-AU

SPECIFICATIONS



DTC-AU series DT100C5S-AU



50 Hz @ 1500rpm,3-phase/5-wiring

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (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.

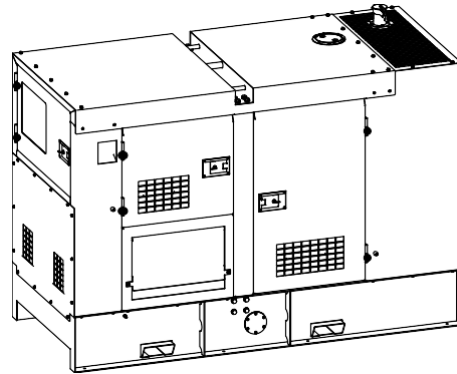
2 General Features

- Cummins engine 6BT5.9-G1
- Close coupled to Stamford alternator UC1224C
- Microprocessor control module PLC-920
- Schneider main circuit breaker: 160A
- 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/72AH 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 28 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment

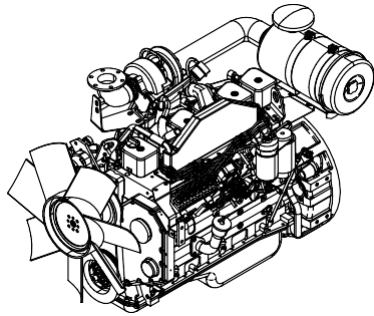
General technical data



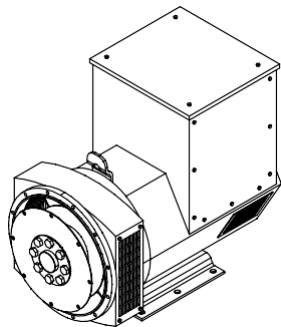
ModelDT100C5S-AU
 Fuel tank 530L
 Dry weight..... 1962kg
 Sound pressure level @ 7m 63.0dBA
 Dimensions LxWxH. 2854x1130x2046mm
 Standby Power..... 110kVA/88kW
 Prime Power..... 100kVA/80kW

Voltage	380V	400V	415V		
Ampere	151.9A	144.3A	139.1A		
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	5.6	11.0	16.3	21.7	23.9

3RZHU 6VWHP

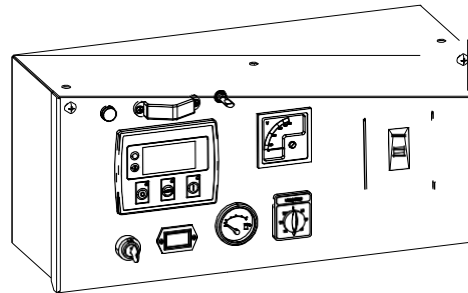


Engine Manufacturer/Brand	Cummins
Engine Model.....	6BT5.9-G1
Dimensions LxWxH	N/A
Dry Weigh (approx.)	411kg
Number of Cylinders.....	6
Bore.....	102mm
Stroke.....	120mm
Displacement	5.9L
Compression Ratio.....	16.8
Type of injection.....	Direct injection
Intake System	Turbo charged
Intake Resistance	≤ 6.28kPa
Cooling System.....	Water cooled
Fan	Pusher
Battery Voltage.....	/24V
Type of Fuel.....	Diesel
Type of Oil	15W40-CF4
Oil Capacity	14.2L
Type of Coolant.....	Glycol mixture
Coolant Capacity	29.7L
Heat Rejected To Exhaust System.....	N/A
Heat Rejected To Water&Oil	49kW(2744BTU/min)
Back Pressure	≤ 10.1kPa
Standby Power.....	92kW
Prime Power.....	86kW



Alternator Manufacturer/Brand.....	Stamford
Alternator Model.....	UCI274C
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

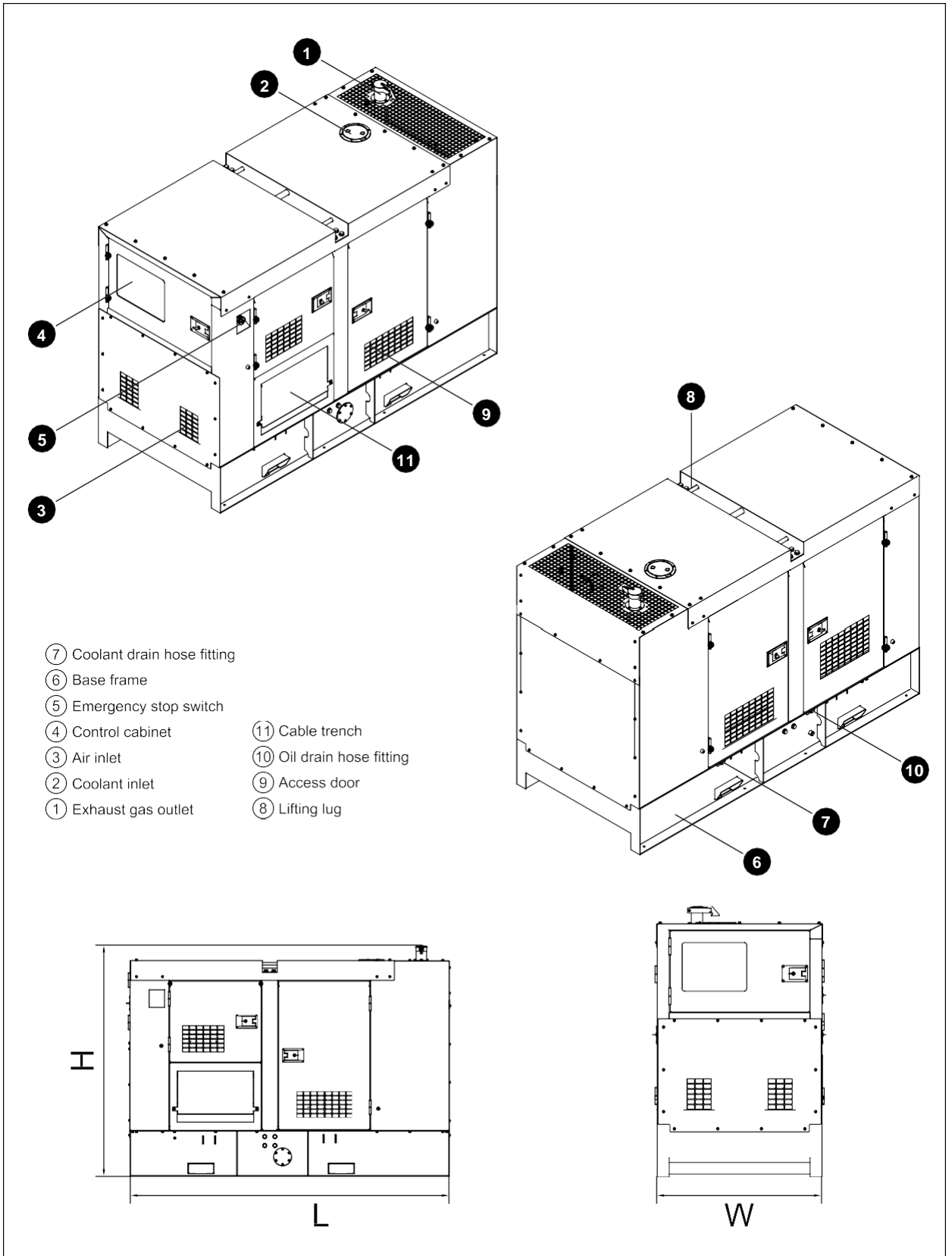


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true firep fault condition of an engine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

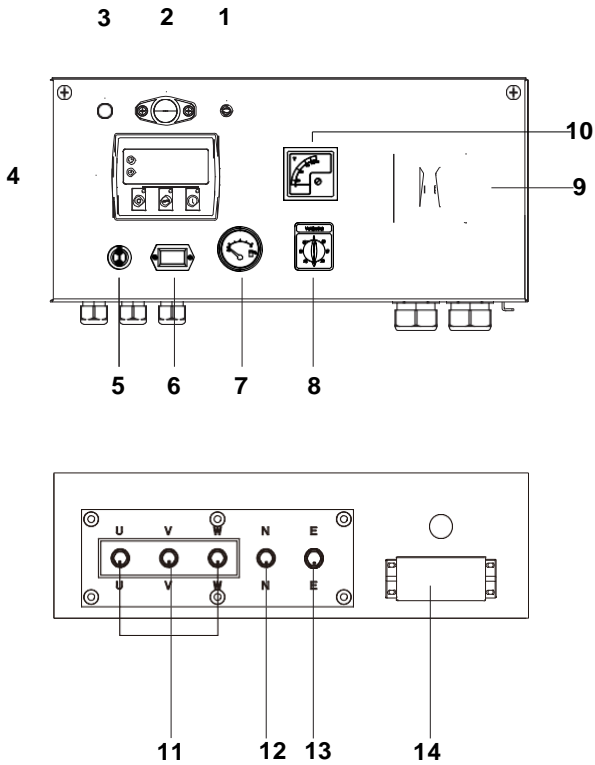
Standard Control Function

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

4 Overall Dimensions

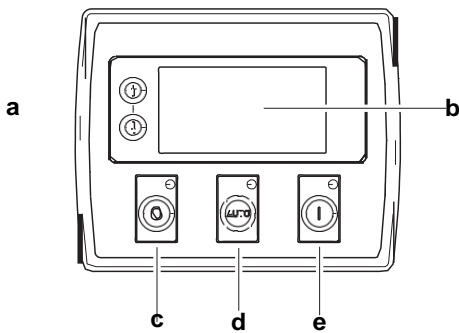


5 Control System



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	Fuel level meter
8	Voltage change-over switch
9	Main circuit breaker
10	Voltage meter
11	Live wire terminals
12	Neutral wire terminal
13	Ground wire terminal
14	Mains input/remote communication connector



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,
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