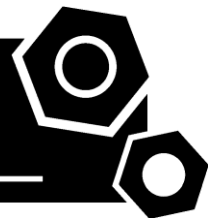


Generator set
Sound-proof type
DT110P5S-AU

SPECIFICATIONS



DTP-AU series DT110P5S-AU

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

Potise

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.

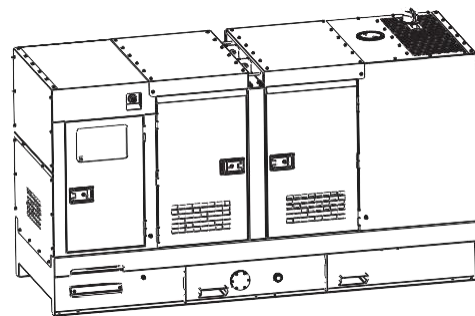
2 General Features

- PowerLink engine 4D4.8TAG2
- Close coupled to PowerLink alternator PL3C
- Microprocessor control module PLC-920
- Main circuit breaker: 200A
- Rotate speed governor: Electric fuel control
- Excitation system: Self excited, SHUNT
- A.V.R model: SX440
- 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 24 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment

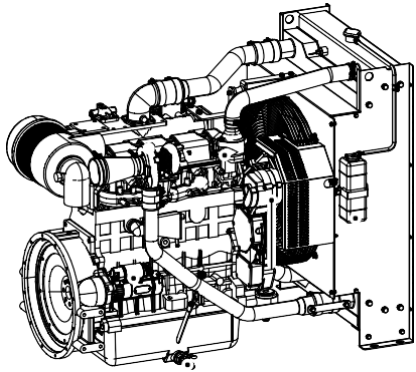
General technical data



Model DT110P5S-AU
Tank capacity 600L
Dry weight 2111kg
Sound pressure level @ 7m 69.2dBA
Dimensions L×W×H. 2700x1150x1931mm
Standby Power 121kVA/97kW
Prime Power 110kVA/88kW

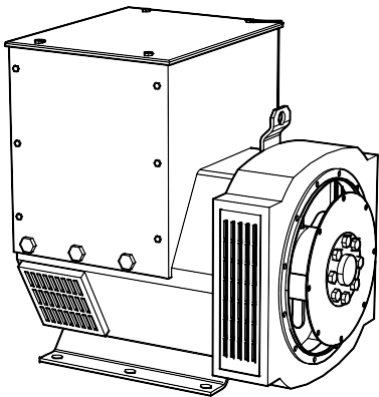
Voltage	380V	400V	415V		
Ampere	167.1A	158.8A	153.0A		
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	7	13	18.5	25	28

3RZHU 61VWHP



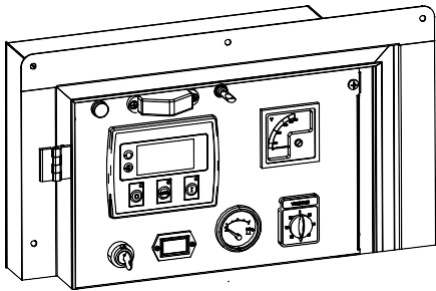
Engine Manufacturer/Brand	Powerlink
Engine Model.....	4D4.8TAG2
Dimensions L×W×H.	1160×710×965mm
Dry Weigh (approx.)	500kg
Number of Cylinders.....	4
Bore.....	110mm
Stroke.....	125mm
Displacement.	4.75L
Compression Ratio	17.0
Type of injection.....	Direct injection
Intake System.	Turbocharged and charge air cooled
Intake Resistance	≤ 5kPa
Cooling System.....	Water cooled
Fan	Pusher
Battery Voltage	V
Type of Fuel.....	No.2 or ASTM D975
Type of Oil	API CF/SE or CCMCF4
Oil Capacity	16.0L
Type of Coolant.....	Glycol mixture
Coolant Capacity	18.0L
Back Pressure	≤ 10.1kPa
Standby Power.....	105kW
Prime Power.....	95kW

Alternator



Alternator Manufacturer/Brand.....	PowerLink
Alternator Model.....	PL3C
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

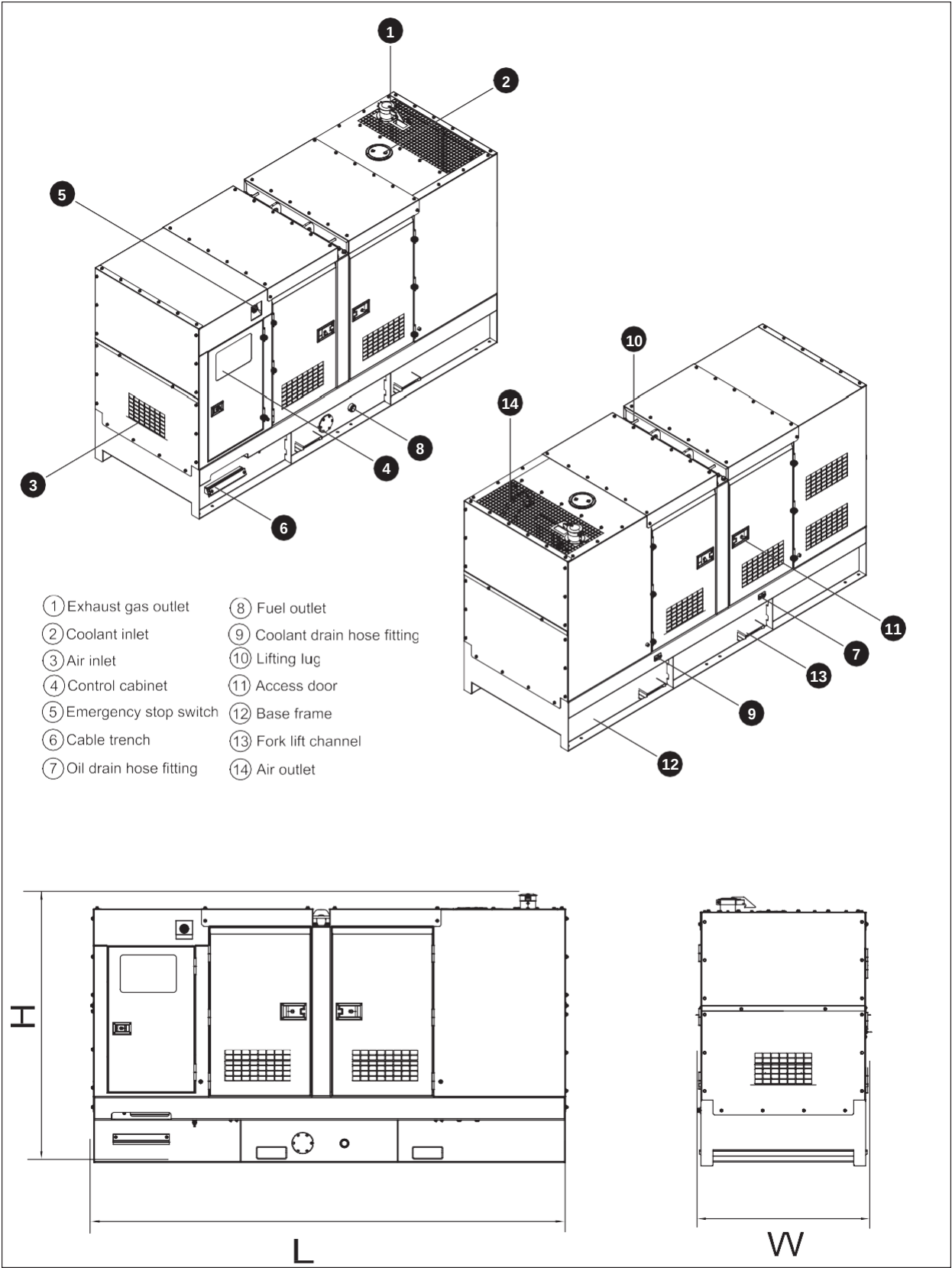


PLC-920 is an advanced control module based on microprocessor designed to control the engine via push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first fault condition of an engine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

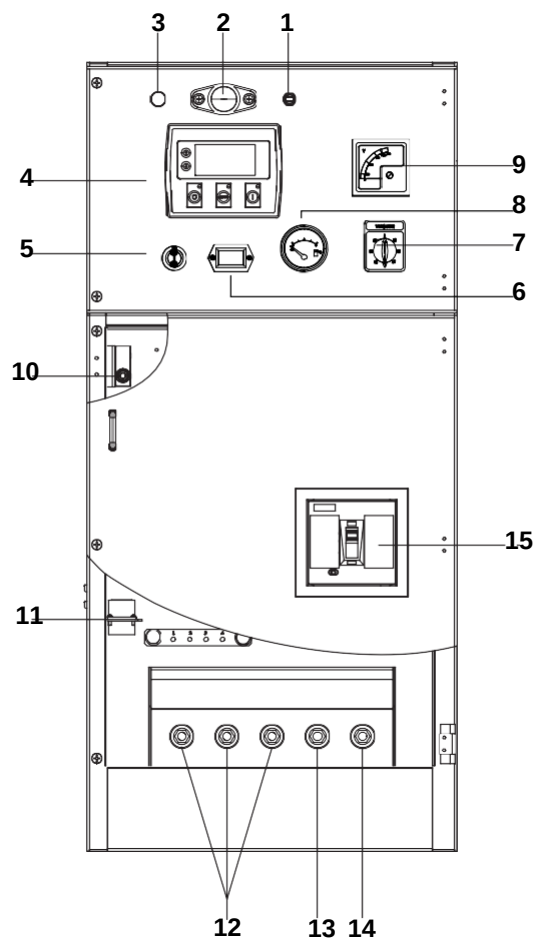
Standard Control Function

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

4 Overall Dimensions

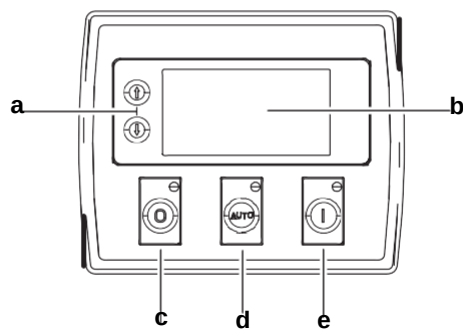


5 Control System



Control & field wiring cabinet

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	Ground wire terminal
15	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)

1000033903-A2-E
10.2020