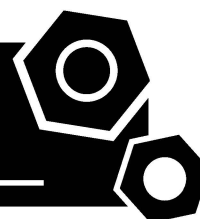




Generator set
Sound-proof type
PC30S-AU

SPECIFICATIONS



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 80%.
- Altitude: Below one thousand (1000) meters.

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.

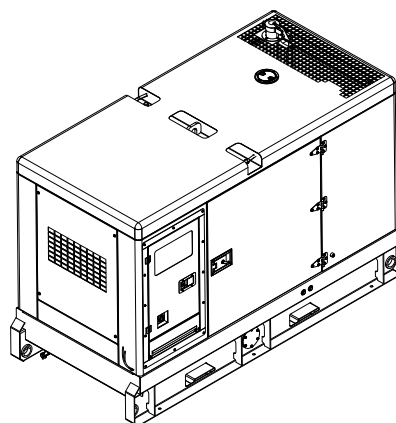
2 General Features

- Cummins engine 4B3.9-G1
- Close coupled to LSA alternator LSA42.3M8
- Microprocessor control module PLC-7420
- ABB Main circuit breaker: 160A
- Rotate speed governor: Mechanical governor
- Excitation system: Self excited, SHUNT
- A.V.R model: R220
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 1x12V/72AH sealed for life maintenance free battery

- Lockable battery isolator switch
- Powder coated canopy
- 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 for 23 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

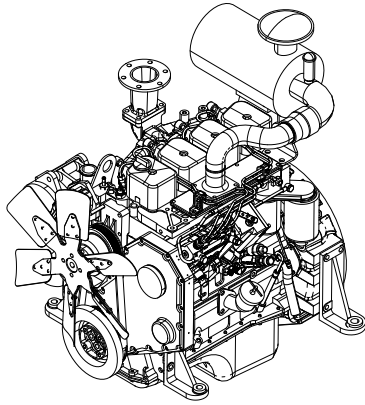
General technical data



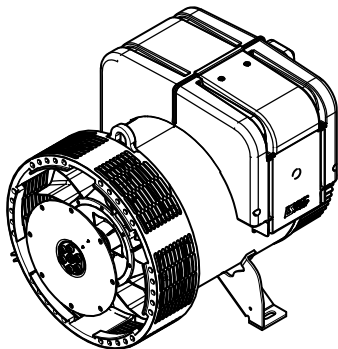
Model.....PC30S-AU
 Structure typeR
 Tank capacity.....165L
 Dry weight..... 1283kg
 Noise level @7m 66.0dBA
 Dimensions L×W×H..... 2298x1050x1460mm
 Standby Power 33kVA/26kW
 Prime Power 30kVA/24kW

Voltage	220V	230V	240V		
Ampere	136A	130A	125A		
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	2.8	4.3	5.7	7.1	8.0

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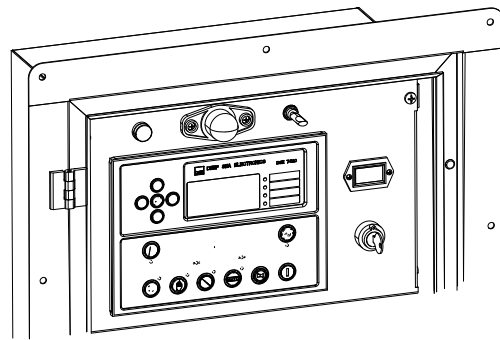


Engine Manufacturer/Brand.....	Cummins
Engine Model.....	4B3.9-G1
Dimensions L×W×H.....	875×703.6×1056.2mm
Dry Weigh (approx.).....	308kg
Number of Cylinders.....	4
Bore.....	102mm
Stroke.....	120mm
Displacement.....	3.9L
Compression Ratio.....	17.3
Type of injection.....	Indirect injection
Intake System.....	Natural aspirated
Intake Resistance.....	≤6.0kPa
Cooling System.....	Water cooled
Fan.....	Pusher
Battery Voltage.....	12V/24V
Type of Fuel.....	EPA2D 89.330-96/CEC RF-06-99
Type of Oil.....	API-CH-4/ ACEA E5
Oil Capacity.....	10.9L
Type of Coolant.....	Glycol mixture
Coolant Capacity(Engine Only).....	7.2L
Back Pressure.....	≤10.2kPa
Standby Power.....	27kW
Prime Power.....	24kW
Fuel Consumption(100%load).....	245g/kWh



Alternator Manufacturer/Brand.....	Leroy Somer
Alternator Model.....	LSA42.3M8
Exciter.....	Brushless
Cooling Fan.....	Plastic
Windings.....	100% copper
Insulation Class.....	H
Winding Pitch.....	2/3
Terminals.....	4
Drip Proof.....	IP23
Altitude.....	≤1000m
Overspeed.....	2250rpm
Air Flow.....	0.135m³/s(50HZ),0.165m³/s(60HZ)
Voltage Regulation.....	±1.0 %
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

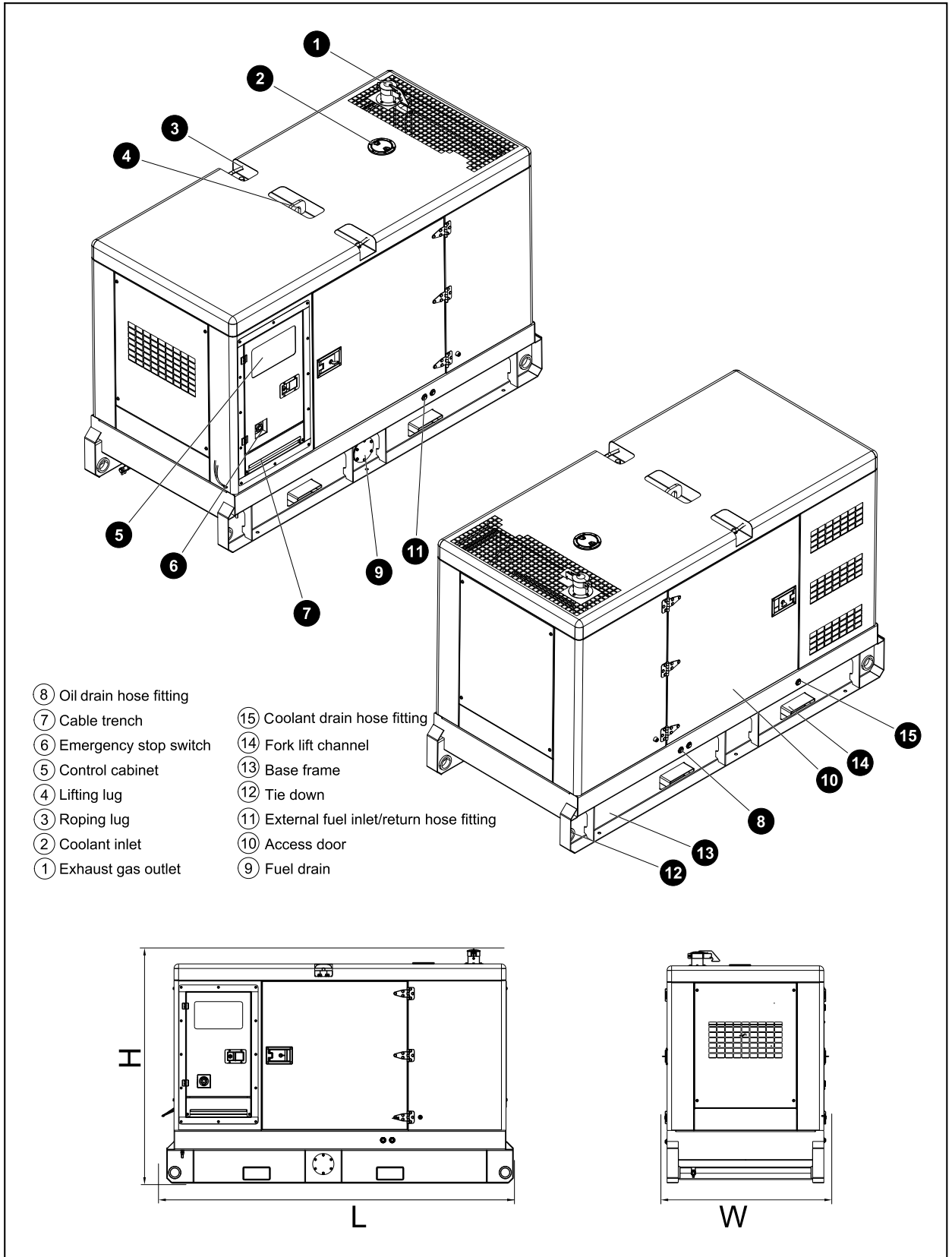
PLC-7420 Control System



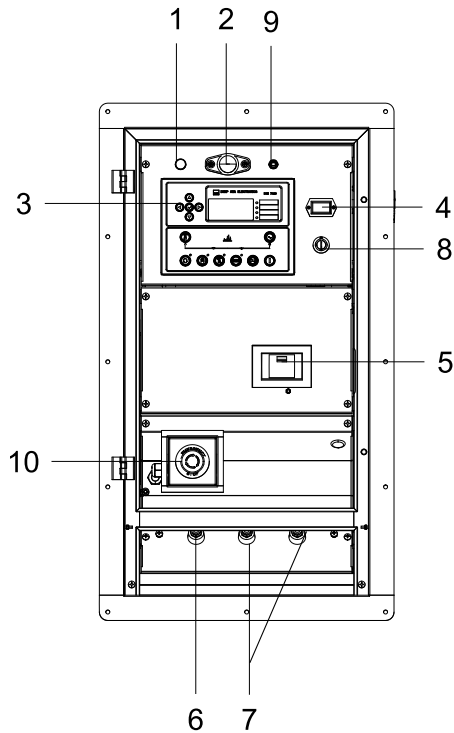
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and 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

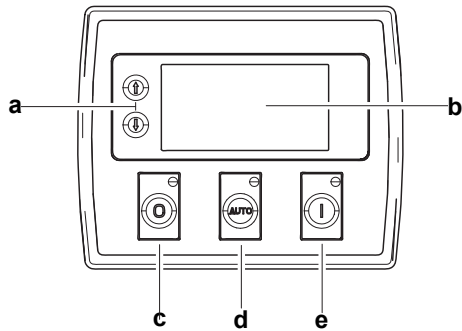


5 Control System



Control & Field wiring cabinet

Ref.	Description
1	Indicator
2	Control cabinet lamp
3	Control module
4	Time counter
5	Main circuit breaker
6	Neutral wire terminal
7	Live wire terminals
8	Key switch
9	Control cabinet lamp switch
10	Emergency stop switch



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 Power Link or your local distributors please.*