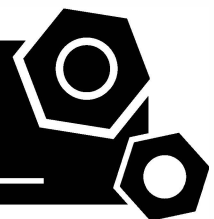


**Generator set**  
**Sound-proof type**  
**PR330P-SAE**

# **SPECIFICATIONS**



**[www.prpower.com](http://www.prpower.com) | 1300 399 499**  
PR Power reserves the right to make changes in model, technical specification, color, configuration and accessories without prior notice. Please contact the sales team before ordering.  
Rev. [Aug].[2023]

## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- ISO8528-5:2005
- GB/T2820.5-2009

### 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.

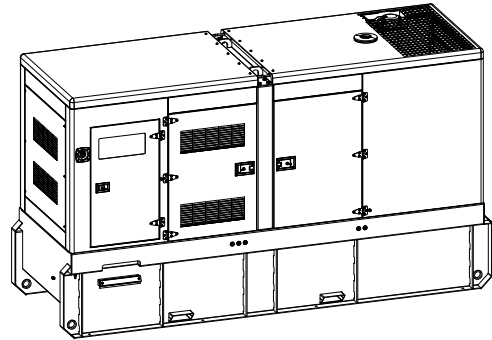
## 2 General Features

- Perkins engine 1706A-E93TAG1
- Close coupled to Leroy Somer alternator LSA46.3L10
- Microprocessor control module PLC-7420
- Main circuit breaker: 500A
- Rotate speed governor: Electronic fuel injection gover-nor
- Excitation system: Self excited, SHUNT
- A.V.R model: R250
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 2x12V/120AH 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 forklifts
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 25 hours running
- Drain points for fuel tank
- Operation Manual/ Specifications

## 3 Equipment Specification

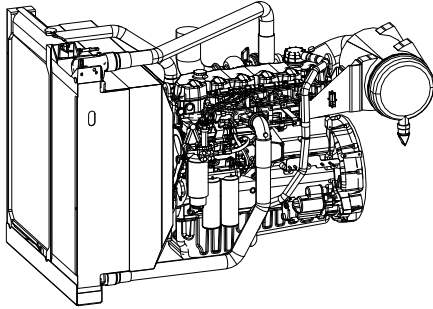
### General technical data



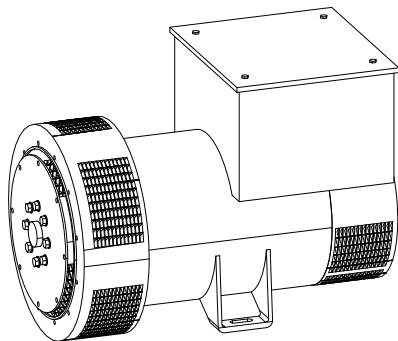
Model.....PR330P-SAE  
 Structure type ..... R  
 Tank capacity.....1650L  
 Dry weight.....4051kg  
 Sound pressure level @7m .....73.5dBA  
 Dimensions L×W×H.....3970x1322x2361mm  
 Standby Power ..... 339kVA/271kW  
 Prime Power ..... 307kVA/246kW

Voltage	380V	400V	415V		
Ampere	455.8A	433.0A	417.4A		
<b>Genset Fuel Consumption</b>					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	32.5	48.7	64.9	71.3

## Power System

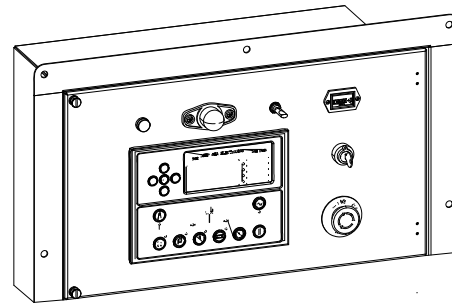


Engine Manufacturer/Brand.....	Perkins
Engine Model.....	1706A-E93TAG1
Dimensions L×W×H.....	2083×1091×1366mm
Dry Weigh (approx.).....	1183Kg
Number of Cylinders.....	6
Bore.....	115mm
Stroke.....	149mm
Displacement.....	9.29L
Compression Ratio.....	16.5
Type of injection.....	Direct injection
Intake System.....	Turbocharged,aftercooled
Intake Resistance.....	6.4kPa
Cooling System.....	Water cooled
Fan.....	Pusher
Battery Voltage.....	24V
Type of Fuel.....	ISO 8528-5 Class G3
Type of Oil.....	15W40 to API C14.
Oil Capacity.....	56L
Type of Coolant.....	Glycol mixture
Coolant Capacity.....	56.1L
Back Pressure.....	10kPA
Standby Power.....	303.9kW
Prime Power.....	276.3kW
Fuel Consumption(100%load).....	64.9L/h



Alternator Manufacturer/Brand.....	Leroy Somer
Alternator Model.....	LSA46.3L10
Exciter.....	Brushless
Cooling Fan.....	Cast alloy aluminum
Windings.....	100% copper
Insulation Class.....	H
Winding Pitch.....	2/3
Terminals.....	12
Drip Proof.....	IP23
Altitude.....	≤1000m
Overspeed.....	2250 rpm
Air Flow.....	0.8m³/s(50HZ),0.99m³/s(60HZ)
Voltage Regulation.....	± 1.0 %
Total harmonic TGH / THCat no load < 1.5 % - on load < 5 %	
Telephone Interference.....	THF<2%;TIF<50

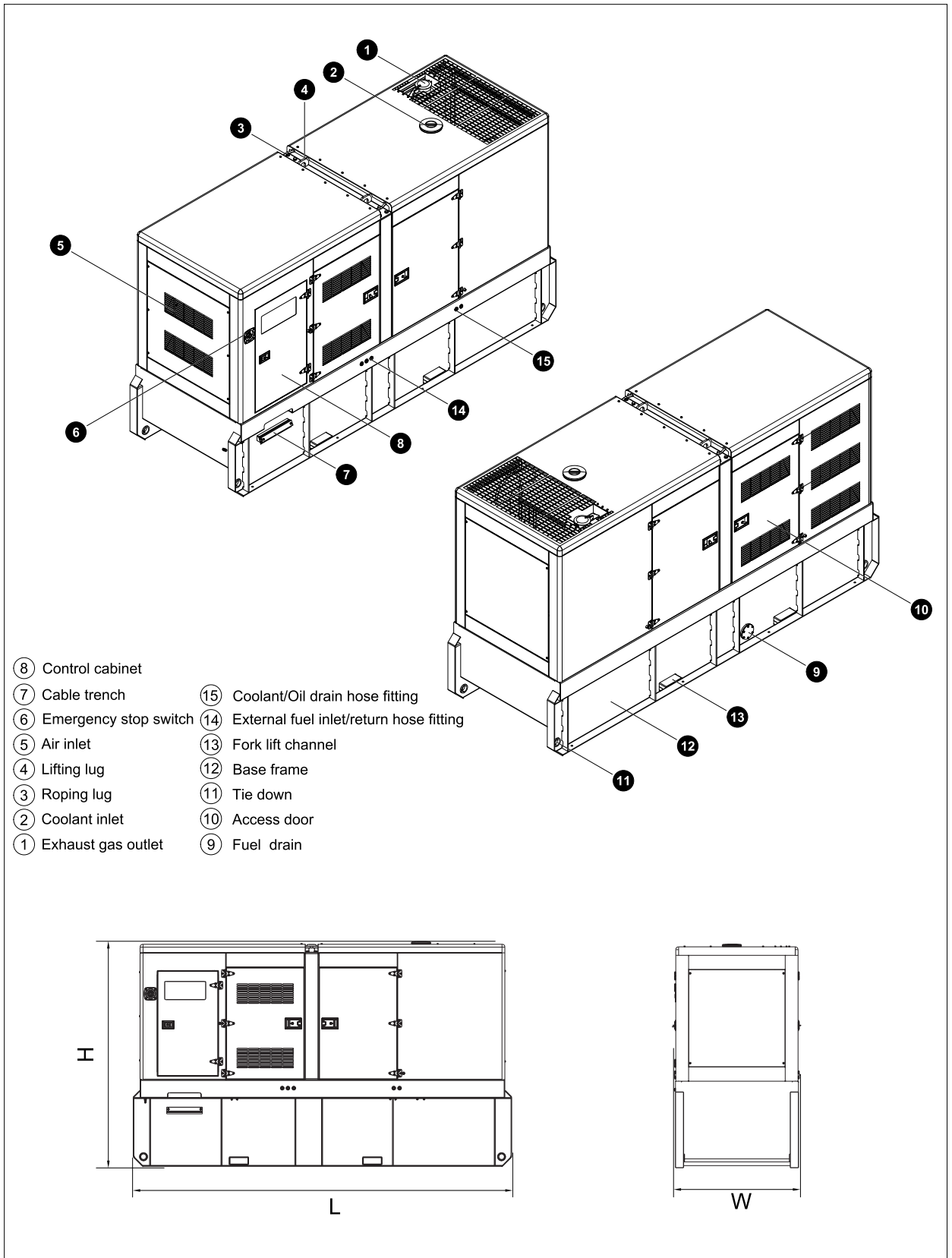
## PLC-7420 Control System



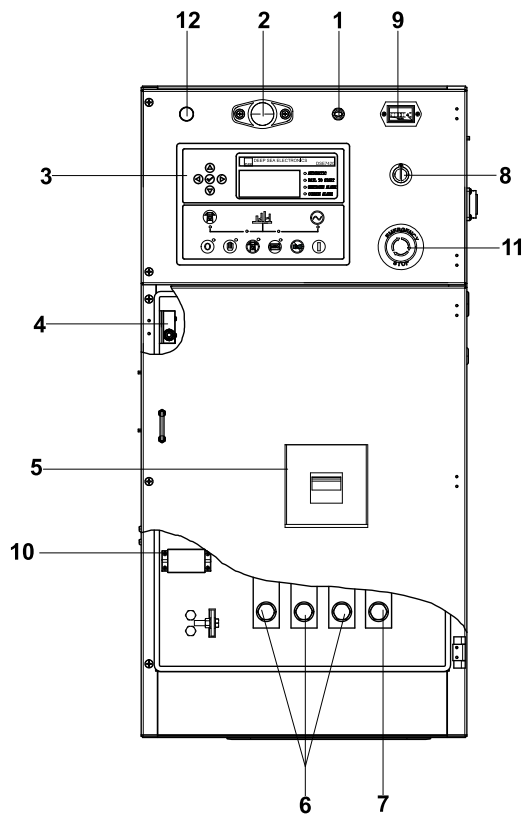
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

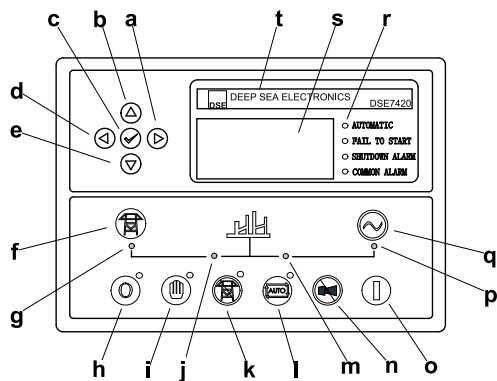
## 4 Overall Dimensions



## 5 Control System



**Control & field wiring cabinet**



**Control module**

Ref.	Description
1	Control cabinet lamp switch
2	Control cabinet lamp
3	Control module
4	Limit switch
5	Main circuit breaker
6	Live wire terminals
7	Neutral wire terminal
8	Key switch
9	Time counter
10	Mains input/remote communication connector
11	Emergency stop button
12	Charge indicator

a	Button (next page)
b	Button (increase value / previous item)
c	Button (accept)
d	Button (previous page)
e	Button (decrease value / next item)
f	Button (transfer the load to the mains supply, when in Manual mode only)
g	Mains supply available LED
h	Stop / Reset button
i	Manual button (Manual control mode)
j	Mains supply on load LED
k	Test button (Test mode)
l	Auto button (Auto mode)
m	Genset on load LED
n	Mute/Lamp test button
o	Start button (Manual)
p	Genset available LED
q	Button (transfer the load to the genset, when in Manual mode only)
r	Alarm LED (4 alarm items)
s	LCD display
t	Control module name