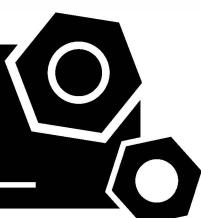


**Generator set
Sound-proof type
PR550C-SAE**

SPECIFICATIONS



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. [July].[2023]

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 80%.
- 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 and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

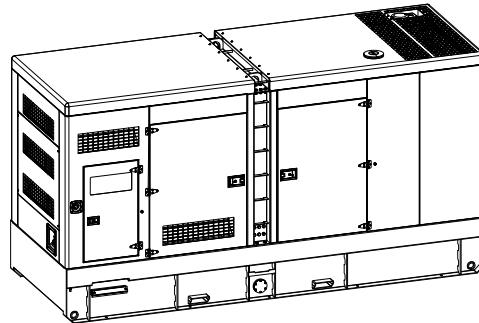
2 General Features

- Cummins engine QSX15-G8
- Close coupled to a Stamford alternator S5L1D-D4
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 800A
- Rotate speed governor: Electronic fuel injection governor
- Excitation system: Self excited
- A.V.R model: AS440
- Voltage changeover switch
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

- 2x12V/200AH 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 fork slots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 16 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

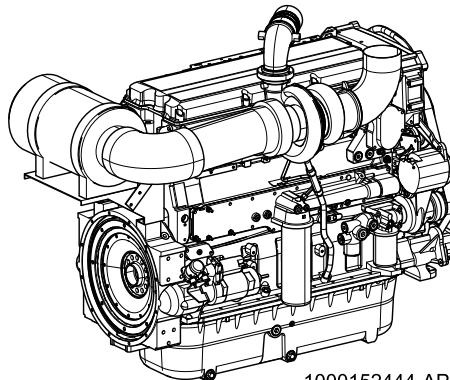
General technical data



Model.....	PR550C-SAE
Structure type	R
Tank capacity.....	1600L
Dry weight.....	6022kg
Noise level @7m	77.2dBA
Emissions Compliance	EU STAGE II
Dimensions L×W×H.....	4662x1623x2566mm
Standby Power	550kVA/440kW
Prime Power	500kVA/400kW

Voltage	380V	400V	415V	440V	
Ampere	759.6A	721.1A	695.6A	656.1A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	30.3	54.7	78.7	103	123

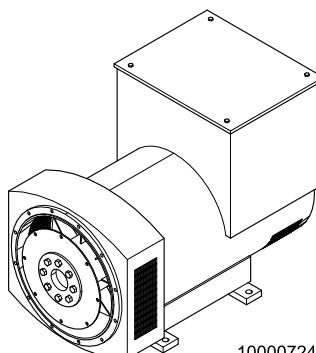
Diesel engine



1000152444-AP1-A1

Engine Manufacturer/Brand.....	Cummins
Engine Model.....	QSX15-G8
Dimensions L×W×H.....	2269×1332×1669mm
Dry Weigh (approx.)	1658kg
Number of Cylinders.....	6
Bore	137mm
Stroke.....	169mm
Displacement.....	15L
Compression Ratio.....	17
Type of injection.....	Direct injection
Intake System.....	Turbocharged,air-to-air charge cooled
Intake Resistance.....	6.2kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	No.2 or ASTM D975
Type of Oil	API CH/SE or CCMCH4
Oil Capacity	91.0L
Type of Coolant	Glycol mixture
Coolant Capacity	24.0L
Back Pressure	10.1kPa
Standby Power	500kW
Prime Power	444kW
Fuel Consumption(100%load).....	103L/h

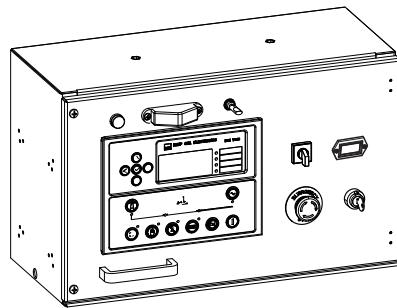
Alternator



1000072447-AP1-A1

Alternator Manufacturer/Brand	Stamford
Alternator Model	S5L1D-D4
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.....	1.12m³/s(50HZ),1.34m³/s(60HZ)
Voltage Regulation	±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

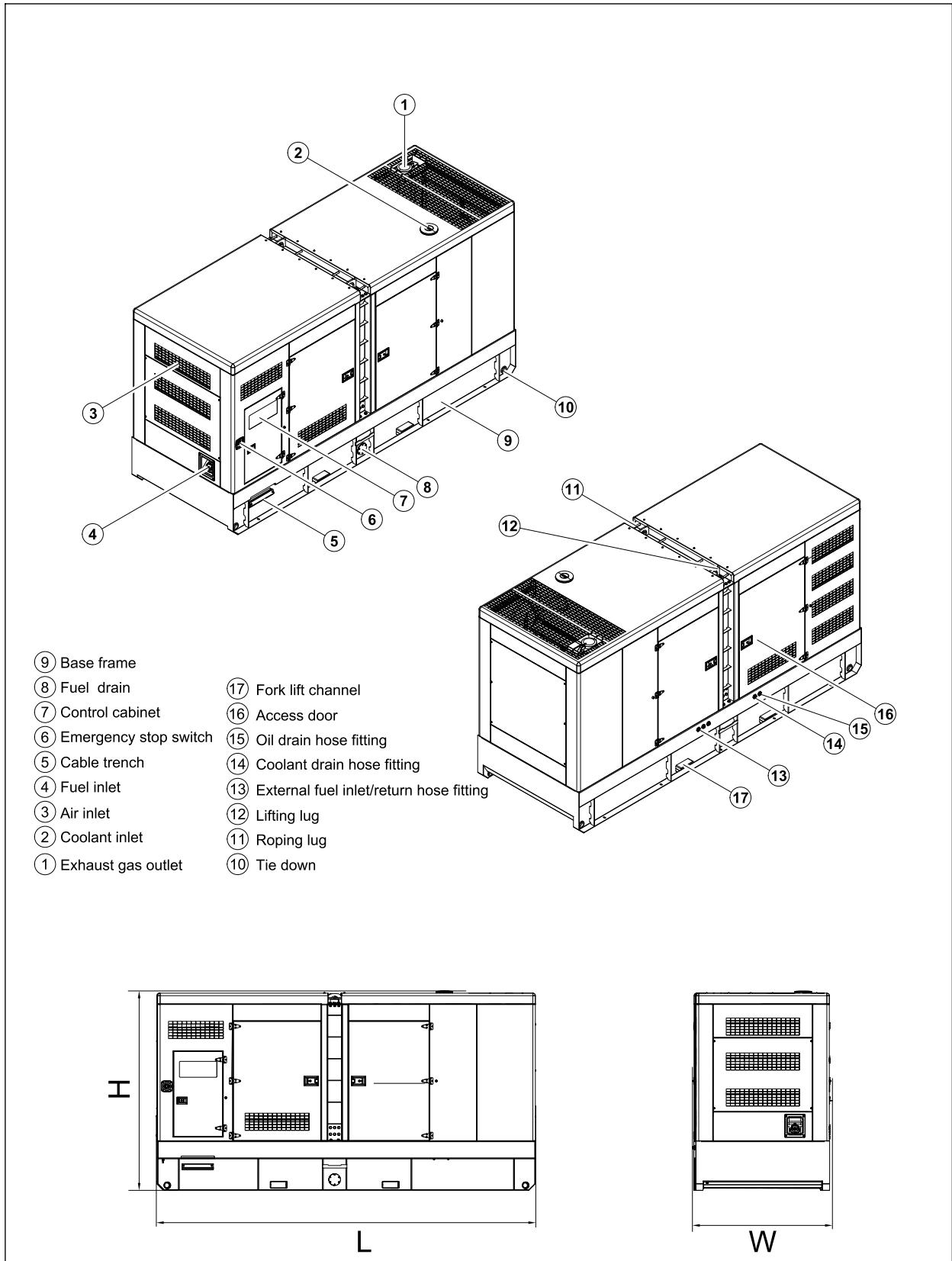
PLC-7420 Control System



PLC-7420 is an advanced control module based on microprocessor, 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

