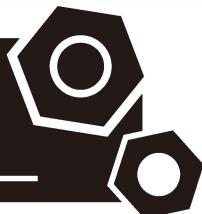


Generator set

Sound-proof type

PR385P-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

- Remote run connector
- 2x12V/120AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Non-returning valve for fuel inlet hose of the engine
- Steel base frame with forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 22 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation Manual / Specifications

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

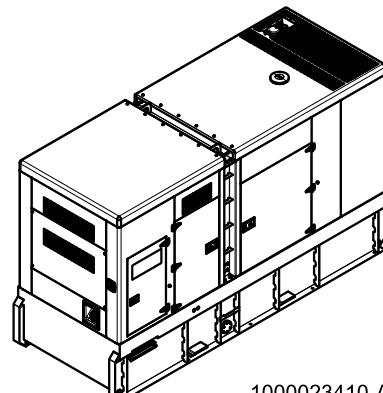
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Perkins engine 2206C-E13TAG2
- Close coupled to a Leroy Somer alternator LSA47.2VS1
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 630A
- Rotate speed governor: Electronic fuel injection governor
- Excitation System: Self Excited, Shunt
- A.V.R.Model: R250
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle

3 Equipment Specification

General technical data

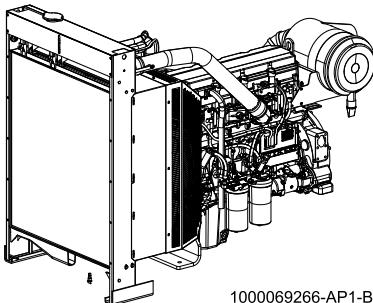


1000023410-AP1-B5

Model.....	PR385P-SAE
Structure type	R
Tank capacity.....	1650L
Dry weight.....	4671kg
Noise level @7m	76.3dBA
Dimensions L×W×H.....	4242x1613x2476mm
Standby Power	385kVA/308kW
Prime Power	350kVA/280kW
Voltage/Current.....	415V/417A

Genset Fuel Consumption						
Frequency/Load	25%	50%	75%	100%	110%	
50Hz (L/h)	N/A	41	59	76	87	

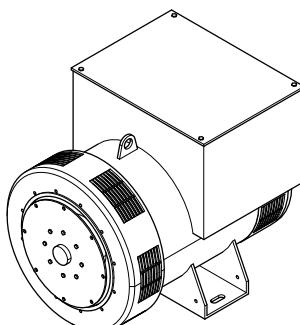
Diesel engine



1000069266-AP1-B3

Engine Manufacturer/Brand.....	Perkins
Engine Model.....	2206C-E13TAG2
Dimensions L×W×H.....	2410×1120×1725mm
Dry Weight (approx.)	1478Kg
Number of Cylinders.....	6
Bore	130mm
Stroke	157mm
Displacement.....	12.5L
Compression Ratio.....	16.3
Type of injection.....	Direct injection
Intake System.....	Turbocharged, air-to-air charge cooled
Intake Resistance.....	N/A
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel....	BSEN590 or ASTM D975 Class 1D and 2D.
Type of Oil	15W40 to API CI4.
Oil Capacity	40L
Type of Coolant	Glycol mixture
Coolant Capacity	51.4L
Heat Rejected To Exhaust System	251.8kW(14101BTU/min)
Heat Rejected To Water&Oil.....	118.4kW(6630BTU/min)
Back Pressure	N/A
Standby Power	320kW
Prime Power	280kW
Fuel Consumption(100%load).....	75L/h

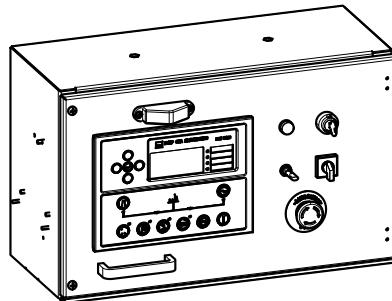
Alternator



1000103169-AP1-A1

Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA47.2VS1
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings100% copper
Insulation Class	H
Winding Pitch.....	2/3
Terminals	12
Drip Proof	IP23
Altitude.....	≤1000m
Overspeed	2250rpm
Air Flow.....	0.9m³/s(50Hz), 1.1m³/s(60Hz)
Voltage Regulation	±0.5%
Total harmonic TGH / THCat no load < 1,5 % - on load < 2 %	
Telephone Interference.....	THF<2%;TIF<50

PLC-7420 Control System



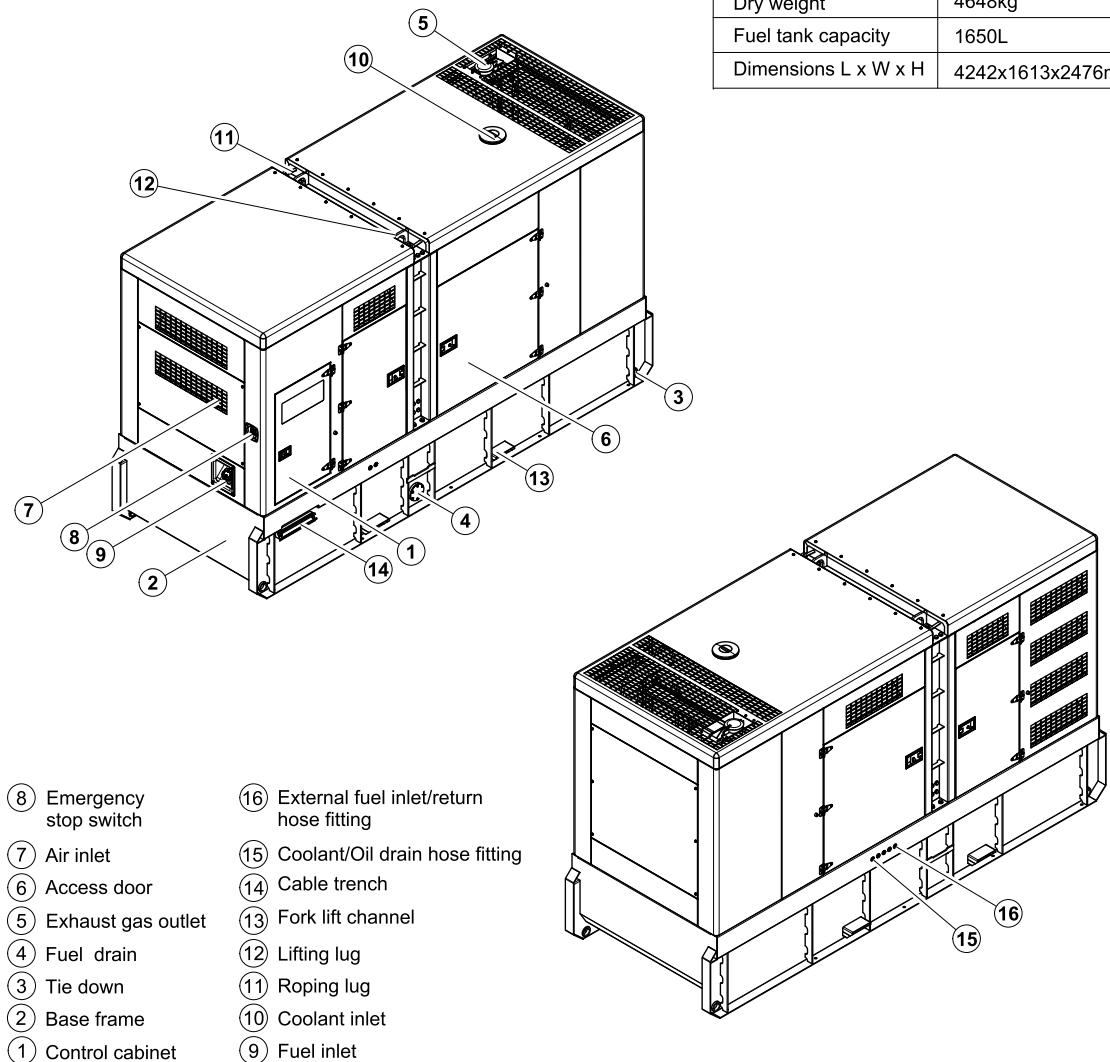
1000191019-AP1-B2

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.

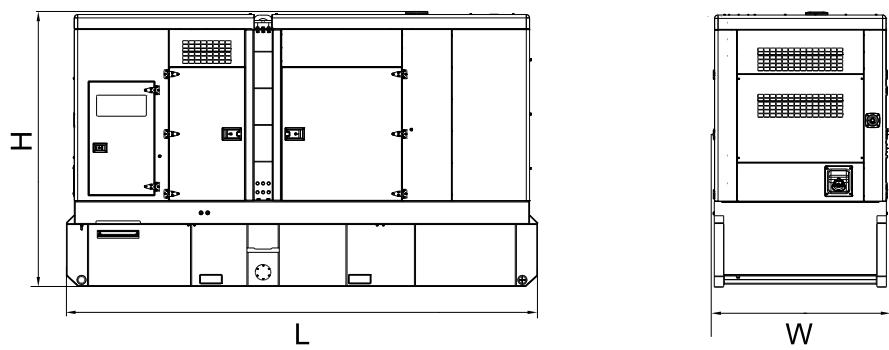
- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, 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

1000023410-DR1-C4



Dry weight	4648kg
Fuel tank capacity	1650L
Dimensions L x W x H	4242x1613x2476mm



5 Control System

