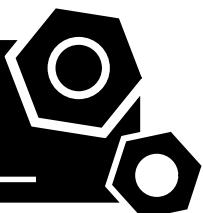


Generator set
Sound-proof type
WPS450S-AU

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- China Compulsory Certification (CCC)
- ISO8528-5:2005
- GB/T2820.5-2009
- AS 3000-2018
- AS 3010.1-2017

- Remote run connector
- 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 forklift slots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 16 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 45°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

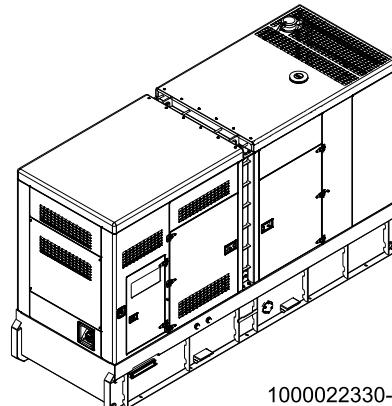
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Perkins engine 2506A-E15TAG1
- Close coupled to a Leroy Somer alternator LSA47.2S5
- Microprocessor control module PLC-7320
- NADER main circuit breaker: 3-Phase 700A
- 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
- 2x12V sealed for life maintenance free battery

3 Equipment Specification

General technical data

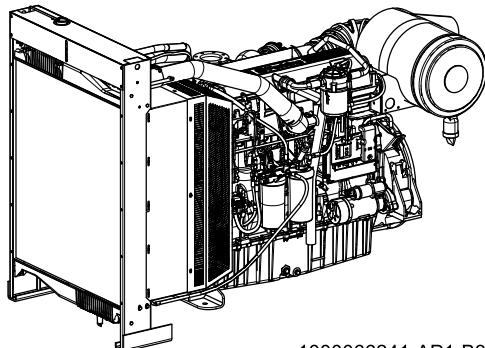


1000022330-AP1-A5

Model.....	WPS450S-AU
Structure type	R
Tank capacity.....	1650L
Dry weight.....	5282.4kg
Noise level @7m	69.4dBA
Dimensions L×W×H.....	4592x1556x2536mm
Standby Power	471kVA/377kW
Prime Power	450kVA/360kW

Voltage	380V	400V	415V		
Ampere	683.7A	649.55A	626.1A		
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	53	77	99	108

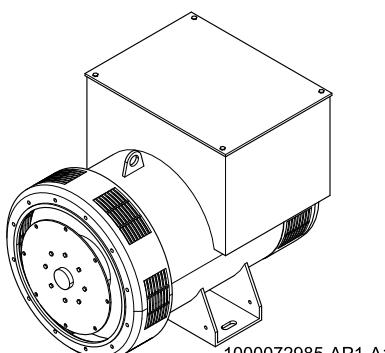
Diesel Engine



1000066241-AP1-B3

Engine Manufacturer/Brand.....	Perkins
Engine Model.....	2506A-E15TAG1
Dimensions L×W×H.....	2657×1120×1718mm
Dry Weigh (approx.)	1633kg
Number of Cylinders.....	6
Bore	137mm
Stroke	165mm
Displacement.....	15.2L
Compression Ratio.....	16
Type of Injection	Direct injection
Intake System.....	Turbocharged, air to air charge cooling
Intake Resistance.....	≤6.2kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	BS2869 class A2 or BS EN590
Type of Oil	API CI4 or ACEA E5
Oil Capacity	62L
Type of Coolant	Glycol mixture
Coolant Capacity	58L
Back Pressure	≤6.8kPa
Standby Power	459kW
Continuous Power	419kW
Fuel Consumption(100%load).....	203g/kW.h

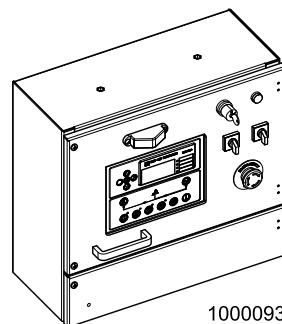
Alternator



1000072985-AP1-A1

Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA47.2S5
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	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



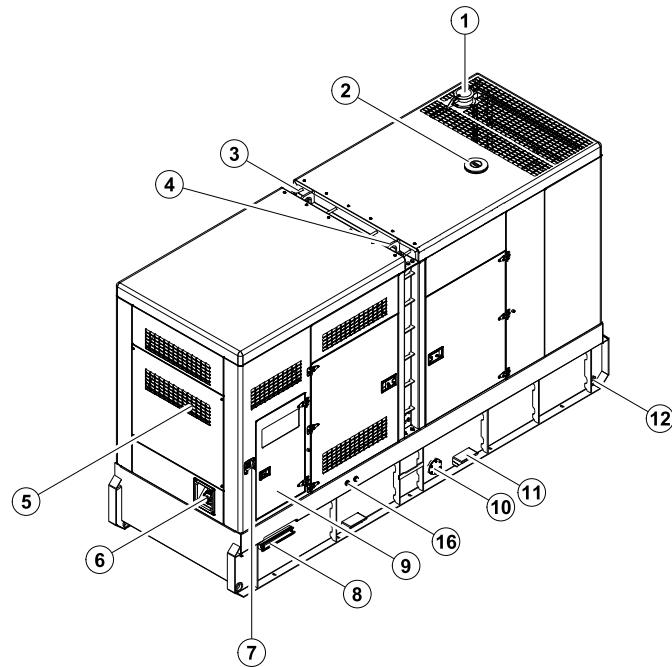
1000093775-AP1-A1

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.

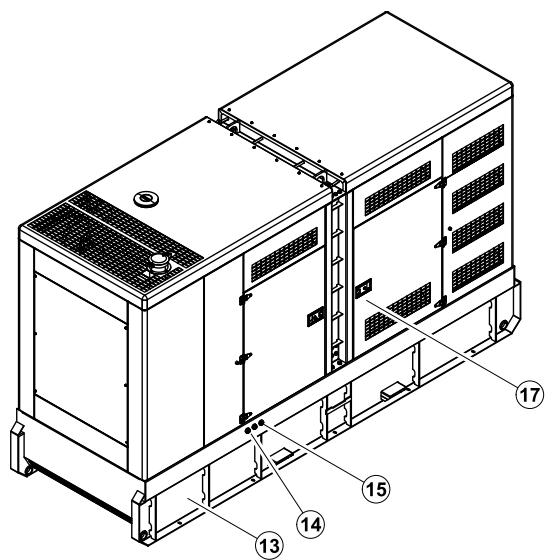
- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual,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

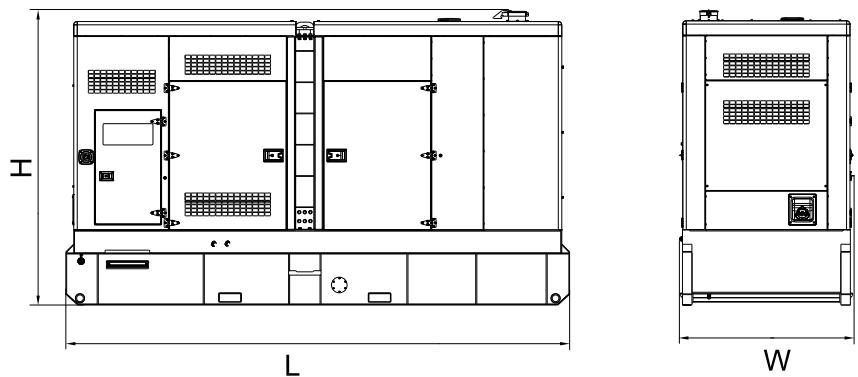
1000022330-DR1-A5



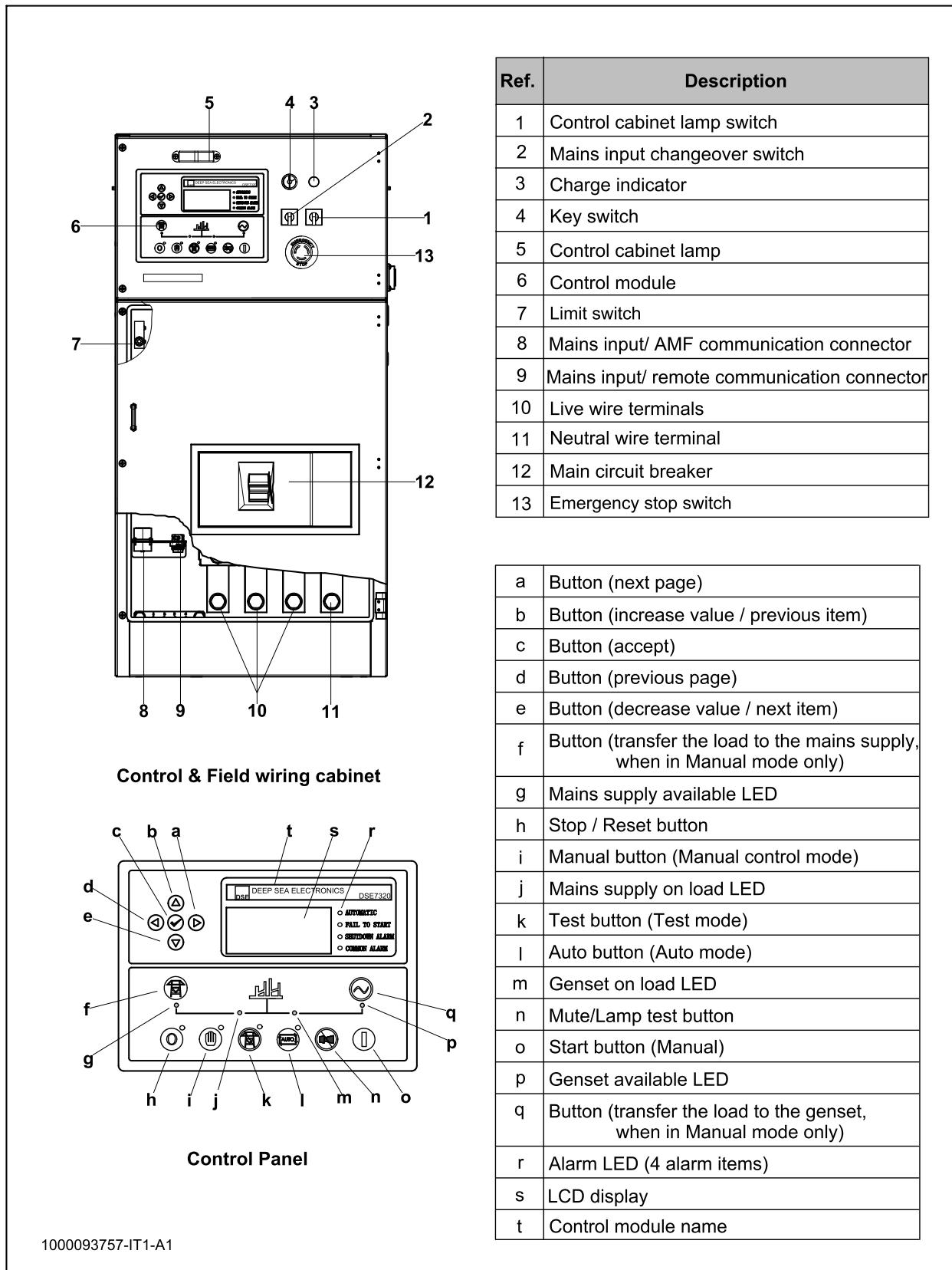
Dry weight	5282.4kg
Fuel tank capacity	1650L
Dimensions L x W x H	4592x1556x2536mm



- | | |
|---------------------------|--|
| (9) Control cabinet | (17) Access door |
| (8) Cable trench | (16) Oil drain hose fitting |
| (7) Emergency stop switch | (15) Coolant drain hose fitting |
| (6) Fuel inlet | (14) External fuel inlet/return hose fitting |
| (5) Air inlet | (13) Base frame |
| (4) Lifting lug | (12) Tie down |
| (3) Roping lug | (11) Fork lift channel |
| (2) Coolant inlet | (10) Fuel drain |
| (1) Exhaust gas outlet | |



5 Control System



1000022330-A5-E
12.2019

<http://www.powerlinkworld.com>

*Specification may change without prior notice. For more info.,
contact Power Link or your local distributors please.*