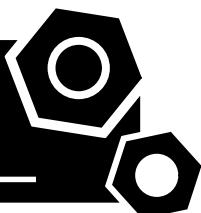


Generator set
Sound-proof type
WPS275S

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

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.

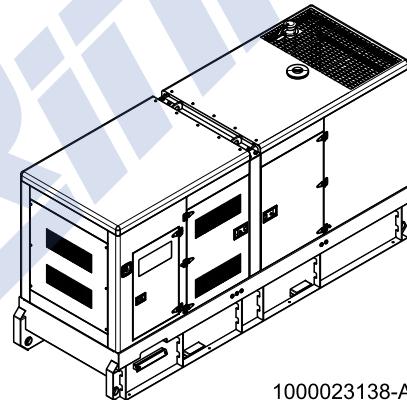
2 General Features

- Perkins engine 1606A-E93TAG4
- Close coupled to a Leroy Somer alternator LSA46.2L9
- Microprocessor control module PLC-7420
- NADER main circuit breaker: 500A
- 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/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 forklift slots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank with 11 hours running
- Drain points for fuel tank
- Operator's Manual / Specifications

3 Equipment Specification

General technical data



1000023138-AP1-A5

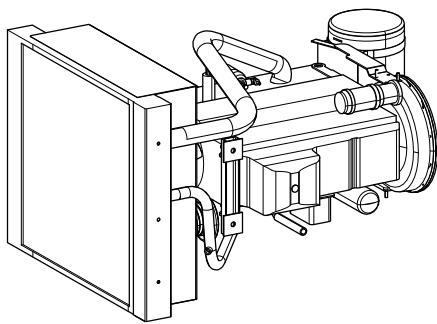
Model.....	WPS275S
Structure type	R
Tank capacity.....	620L
Dry weight.....	3541kg
Sound pressure level @1m/ 7m	N/A
Sound power level acc. 2000/14/EC	N/A
Dimensions L×W×H.....	3970x1322x2098mm
Standby Power	303kVA/242kW
Prime Power	275kVA/220kW

Voltage	380V	400V	415V	440V
Ampere	417.8A	369.6A	382.5A	360.8A

Genset Fuel Consumption

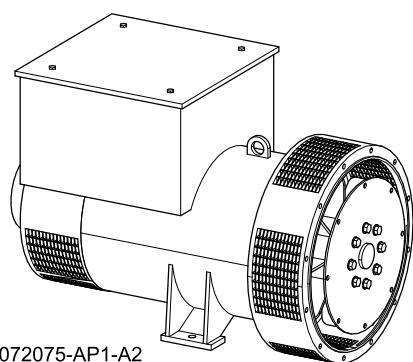
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	32	44	56	61

Dck Yf GnghYa



1000189953-AP1-A1

Engine Manufacturer/Brand.....	Perkins
Engine Model.....	1606A-E93TAG4
Dimensions L×W×H.....	1964×1074×1353mm
Dry Weight (approx.)	1098kg
Number of Cylinders.....	6
Bore	116.6mm
Stroke	146mm
Displacement.....	9.3L
Compression Ratio.....	17.2
Type of injection.....	Direct injection
Intake System.....	Turbocharged, air-to-air charge cooled
Intake Resistance.....	$\leq 6.22\text{kPa}$
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	BS 2869 1998 CLASS A1, CLASS A2 or BSEN590
Type of Oil	API-CH-4, API-CG-4 or ACEA E3
Oil Capacity	36L
Type of Coolant	Glycol mixture
Coolant capacity	30.9L
Back Pressure	$\leq 10.0\text{kPa}$
Standby Power	240kW
Prime Power	220kW
Fuel Consumption(100%load).....	61L/h

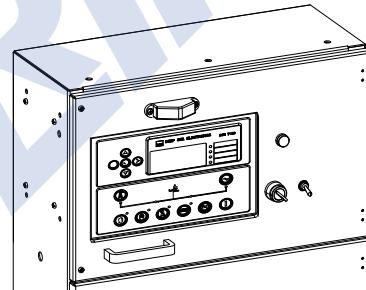


1000072075-AP1-A2

Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA46.2L9
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings.....	100% copper
Insulation Class	H
Winding Pitch.....	2/3
Terminals	12
Drip Proof	IP23
Altitude.....	$\leq 1000\text{m}$
Overspeed	2250rpm
Air Flow.....	0.43m³/s(50Hz), 0.51m³/s(60Hz)
Voltage Regulation	$\pm 0.5\%$
Total harmonic TGH / THCno load < 2.5 % - on load < 2.5%	
Telephone Interference.....	THF<2%;TIF<50

PLC-7420 Control System

1000206337-AP1-A1



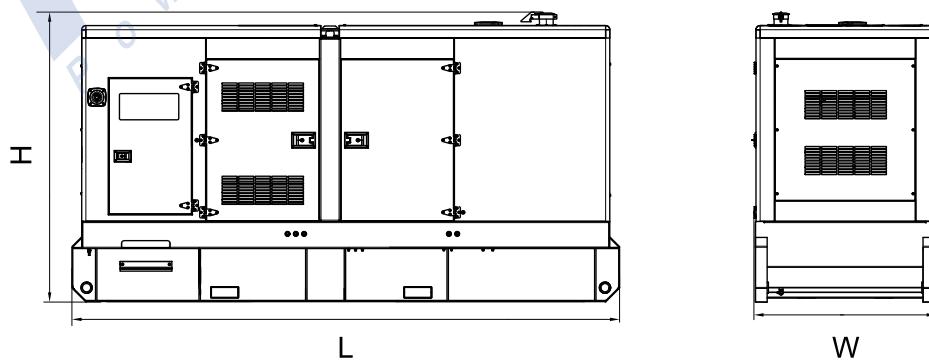
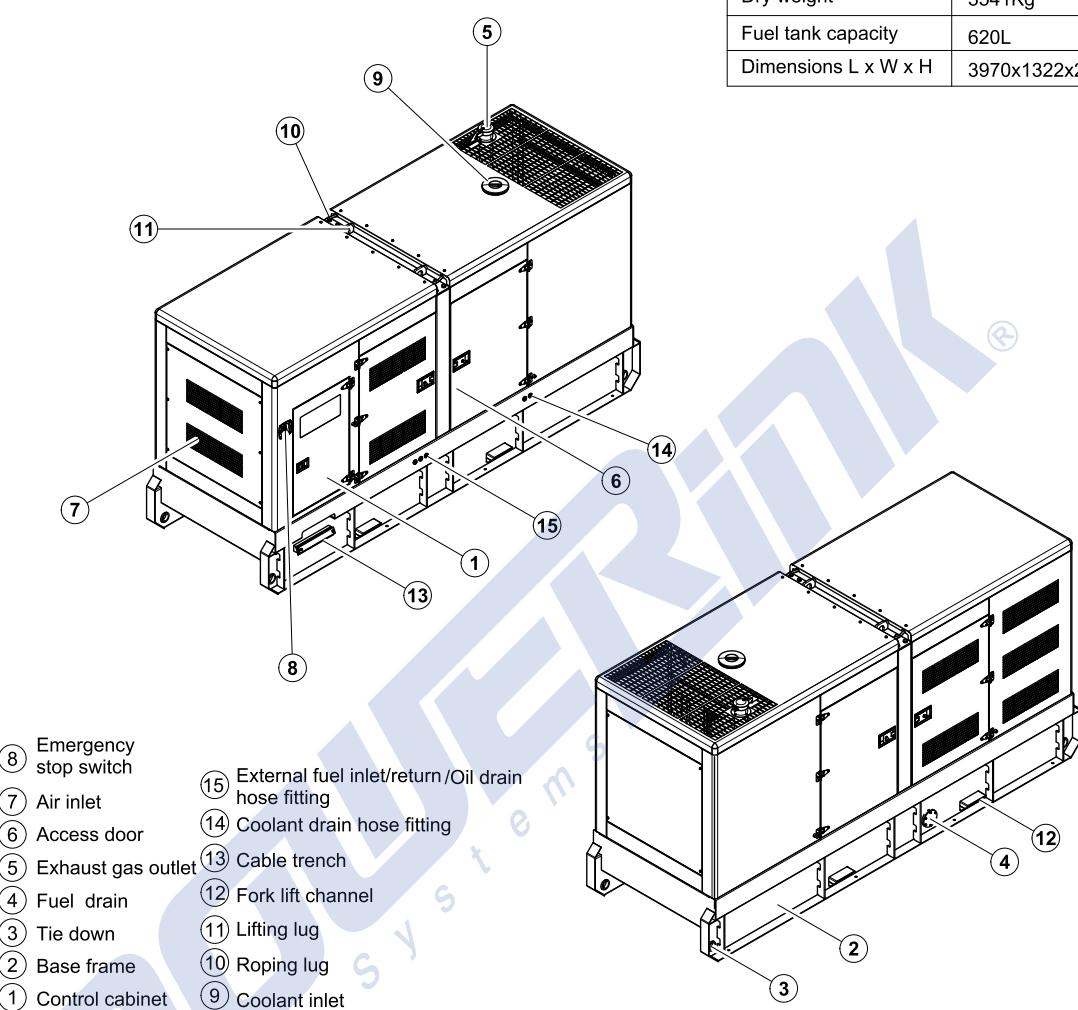
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

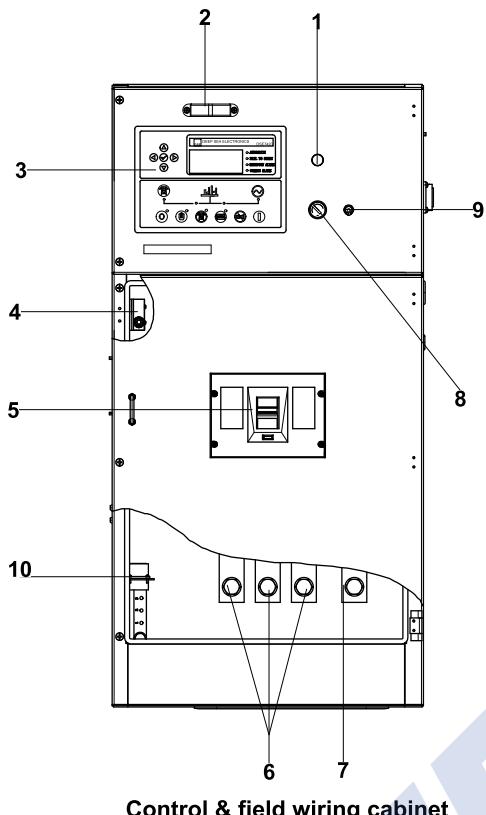
4 Overall Dimensions

1000023138-DR1-A5

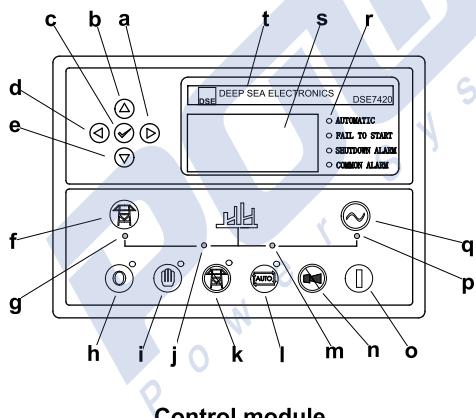
Dry weight	3541Kg
Fuel tank capacity	620L
Dimensions L x W x H	3970x1322x2098mm



5 Control System



Control & field wiring cabinet



10000206337-IT1-A1

Ref.	Description
1	Charge indicator
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	Control cabinet lamp switch
10	ATS communication interface

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

1000023138-A5-E

11.2013



<http://www.powerlinkworld.com>

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

©2013 POWERLINK