

Generator set
Sound-proof type
WPS600S

SPECIFICATIONS





1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- ISO9001:2015

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.

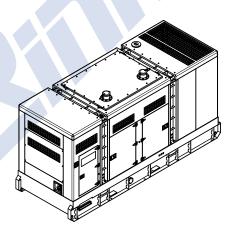
2 General Features

- Perkins engine 2806A-E18TAG1A
- Close coupled to a Leroy Somer alternator LSA47.2L9
- Microprocessor control module PLC-7420
- Main circuit breaker: 1000A
- Rotate speed governor: Electronic governor
- Excitation System: SHUNT
- A.V.R.Model: R250
- Key switch
- · Emergency stop switch
- · ATS (automatic transfer switch) receptacle
- 2*12V 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 forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for AF3 hours running
- · Drain points for fuel tank
- Operation Manual / Specifications

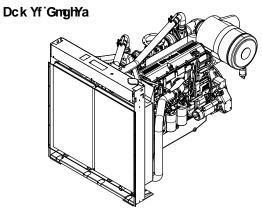
3 Equipment Specification

General technical data

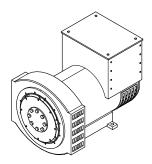


Model	WPS600S
Structure type	R
Tank capacity	1650L
Dry weighc	6433kg
Sound pressure level @7m	77.7dB(A)
Dimensions L×W×H	4692x1763x2516mm
Standby Power	660kVA/528kW
Prime Power	600kVA/480kW

Voltage	380	V	400V		415V		440V	
Ampere	917A		866A		835A		787A	
	Genset Fuel Consumption							
Frequency	//Load	25	5%	50%	75%	10	0%	110%
50Hz (l	_/h)	Ν	/A	61	90	12	23	134

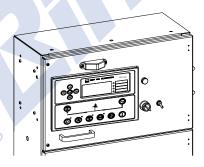


Engine Manufacture	/BrandPerkins
Engine Model	2806A-E18TAG1
Dimensions L×W×H.	2545×1536×1807mm
Dry Weight (approx.)	2050kg
Number of Cylinders	6
Bore	145mm
Stroke	183mm
Displacement	15.2L
Compression Ratio	14.5
Type of injection	Direct injection
Intake System	Turbocharged,air-to-air charge cooled
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel	BS2869 class A2 or BS EN590
Type of Oil	API CG4/ APEA E5
Oil Capacity	62.0L
Type of Coolant	Glycol mixture
	61.0L
Standby Power	593.0kW
	540.0kW
Fuel Consumption(10	00%load)123.0L/h



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA47.2L9
Exciter	Brushless
Cooling Fan	Cast alloy aluminum
Windings	100% copper
Insulation Class	H
Winding Pitch	2/3
Drip Proof	IP23
Altitude	≤1000m
Overspeed	2250rpm
Air Flow 0.8m³/s	s(50HZ),0.99m³/s(60HZ)
Voltage Regulation	±1.0%
Total harmonic TGH / THCat no loa	ad < 1.5 % - on load < 5%
Telephone Interference	THF<2%;TIF<50

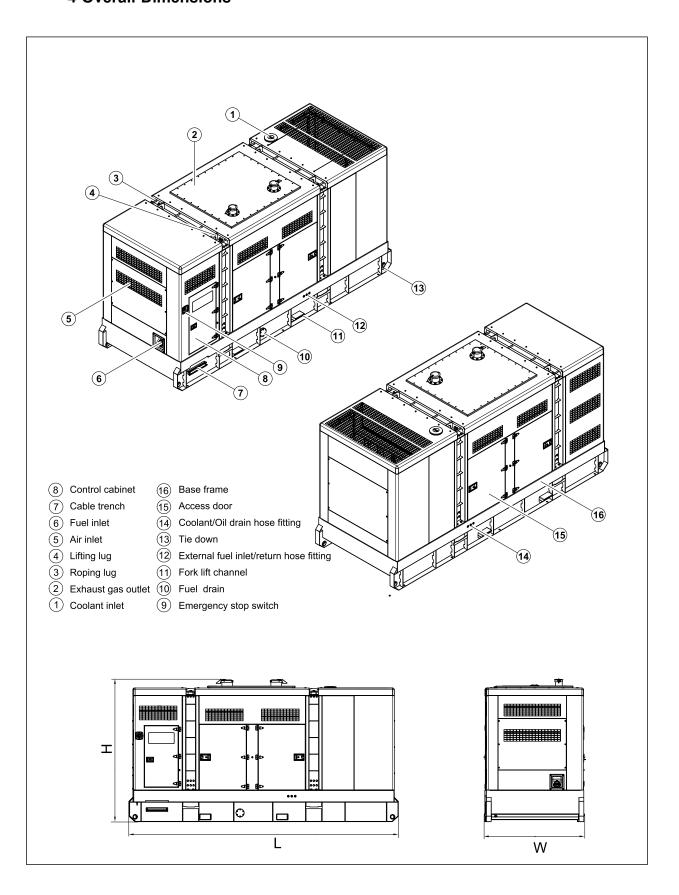
PLC-7420 Control System



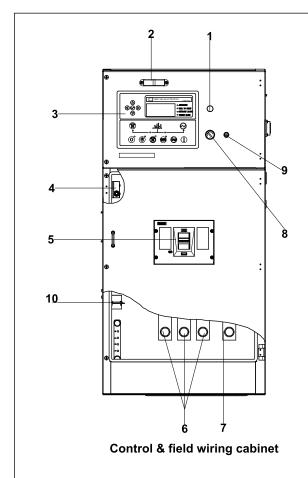
PLC-7420 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

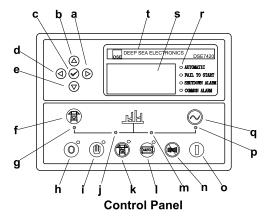
- · Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
-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





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	Mains input/remote/AMF communication connector

а	Button (next page)
b	Button (increase value / previous item)
С	Button (accept)
d	Button (previous page)
е	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)
1	Auto button (Auto mode)
m	Genset on load LED
n	Mute/Lamp test button
О	Start button (Manual)
р	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

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