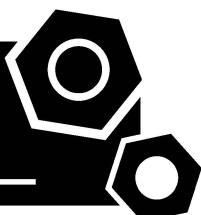


Generator set
Containerized type
WPS600D6S-EPA

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- ISO8528-5:2005
- GB/T2820.5-2009

- 50°C radiator with engine driven blower type fan
- Fire extinguisher
- Anti-condensation heater
- Steel base frame with vibration isolators
- Cartridge fuel filter and full flow oil filter
- Dry type air filter
- Fuel tank with level gauge and fill cap, for 6 hours running under full load
- Fuel pump and oil pump
- Fuel-water separator
- Exhaust residential silencer with anti-vibration mounts
- 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 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

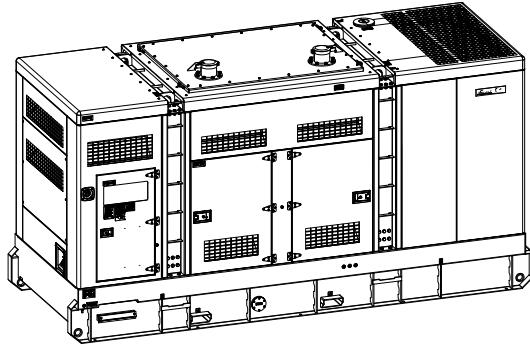
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Perkins engine 2806C-E18TAG3
- Close coupled to Leroy Somer alternator LSA 47.3 M8
- Intelligent control module PLC-7420
- ABB Main circuit breaker: 1000A
- Rotate speed governor: ECU
- Excitation system: Self excited
- A.V.R model: R448
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 2x12V/150AH battery and battery charger
- Lockable battery isolator switch
- Container with sound attenuated and weatherproof enclosure

3 Equipment Specification

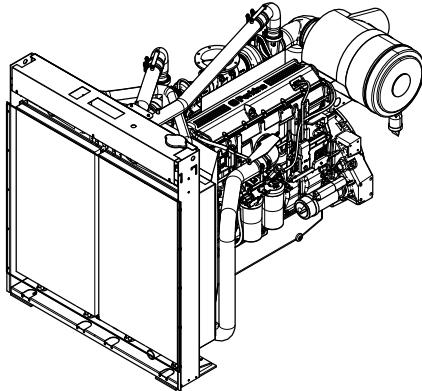
General technical data



Model.....	WPS600D6S-EPA
Structure type	C
Tank capacity.....	945L
Dry weight.....	6312.9kg
Sound pressure level @7m	76dB(A)
Dimensions LxWxH.....	4692×1700×2517mm
Standby Power	750kVA/600kW

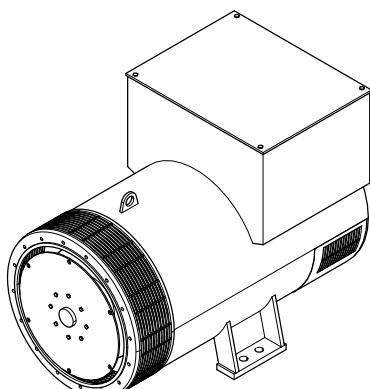
Voltage	416V	440V	460V	480V	
Ampere	832.7A	787.3A	753.1A	721.7A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	N/A	79	112	145	158

Diesel Engine



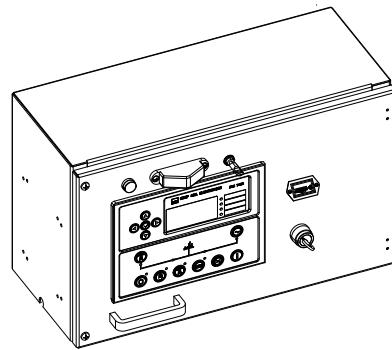
Engine Manufacturer/Brand.....	Perkins
Engine Model.....	2806C-E18TAG3
Dimensions L×W×H.....	2545×1536×1807.5mm
Dry Weigh (approx.)	2050kg
Number of Cylinders.....	6
Bore	145mm
Stroke.....	183mm
Displacement.....	18.13L
Compression Ratio.....	14.5
Type of Injection	MEUI
Intake System.....	Turbocharged, air to air charge cooling
Intake Resistance.....	$\leq 3.7\text{kPa}$
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	BS2869 class A2 or BS EN590
Type of Oil	API CG4 or APEA E5
Oil Capacity	62L
Type of Coolant	Glycol Mixture
Coolant capacity.....	61L
Back Pressure	$\leq 6.9\text{kPa}$
Standby Power	678kW
Prime Power	618kW
Fuel Consumption(100%load).....	145L/h

Alternator



Alternator Manufacturer/Brand	Leroy Somer
Alternator Model	LSA 47.3 M8
Exciter.....	Brushless
Cooling Fan	Cast alloy aluminum
Windings.....	100% copper
Insulation Class	H
Winding Pitch.....	2/3
Terminals	6
Drip Proof	IP23
Altitude.....	$\leq 1000\text{m}$
Overspeed	2250Rev/Min
Air Flow.....	1m ³ /s(50Hz), 1.2m ³ /s(60Hz)
Voltage Regulation	$\pm 0.5\%$
Total Harmonic TGH / THCat no load < 4 % - on load < 4%	
Telephone Interference.....	THF<2%;TIF<50

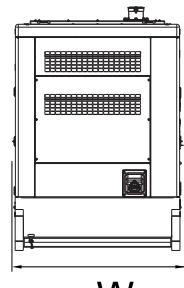
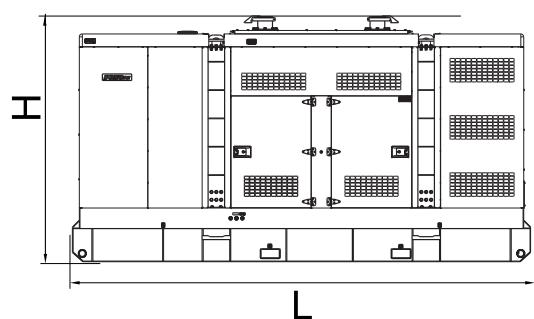
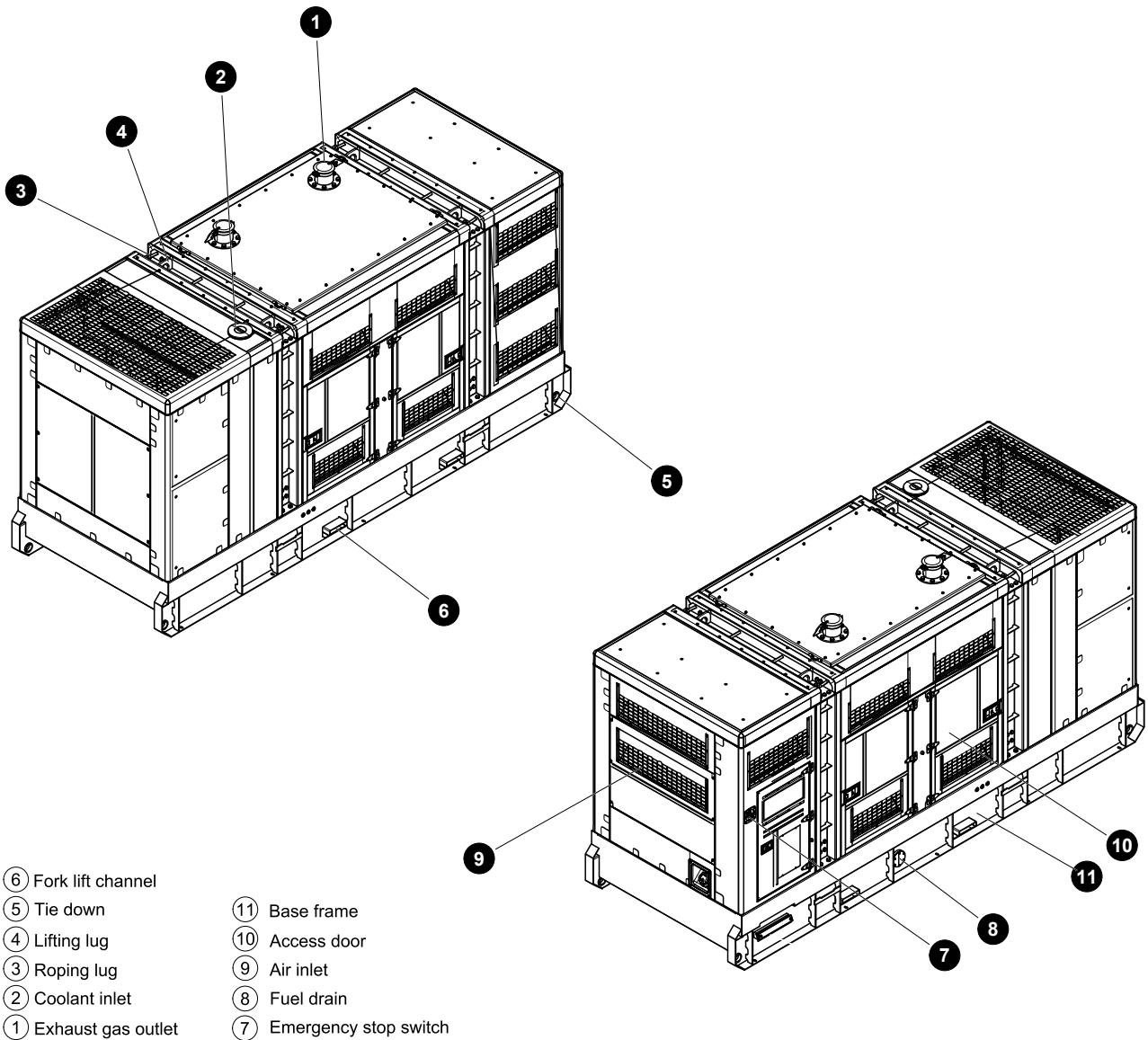
PLC-7420 Control System



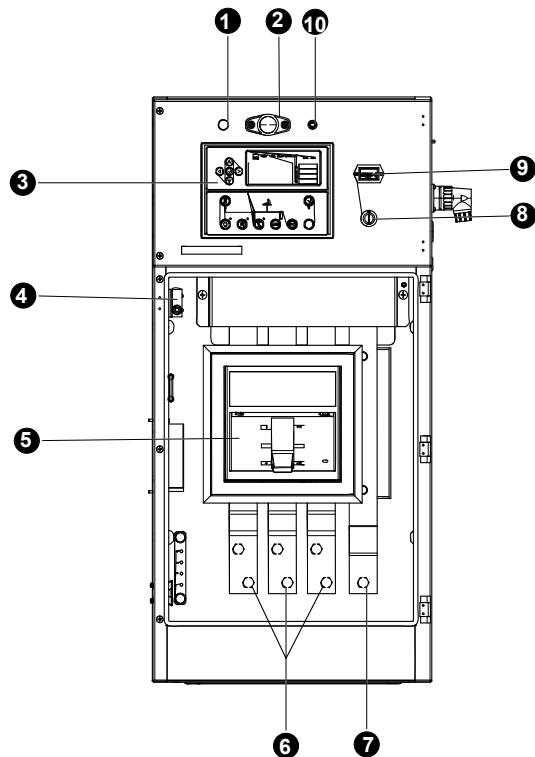
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

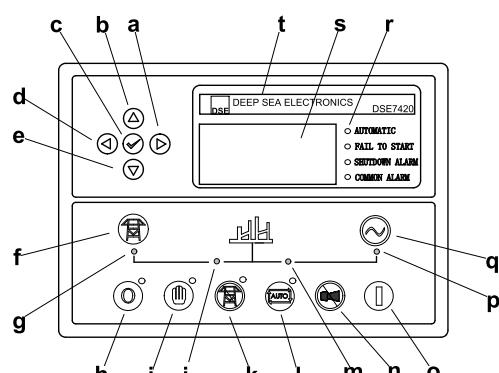


5 Control System



Ref.	Description
1	Charge indicator
2	Control panel lamp
3	PLC-7420 Control module
4	Limit switch
5	Main circuit breaker
6	Live wire terminals
7	Neutral wire terminal
8	Key switch
9	Time counter
10	Control panel lamp switch

Control & field wiring cabinet



Control panel

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

1000033165-A2-E
11.2022

<http://www.powerlinkworld.com>

*Specification may change without prior notice. For more info.,
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