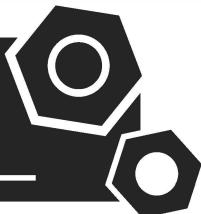


**Generator set**  
**Sound-proof type**  
**WPS176D6S-EPA**

## 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

### 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.

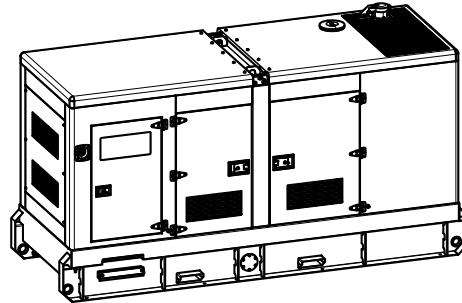
## 2 General Features

- Perkins engine 1106D-E70TAG4
- Close coupled to a Leroy somer alternator LSA 44.3 VL14
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 630A
- Rotate speed governor: ECU
- Excitation system: Self excited , SHUNT
- Key switch

- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 1x12V/120AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Power 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 9 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

## 3 Equipment Specification

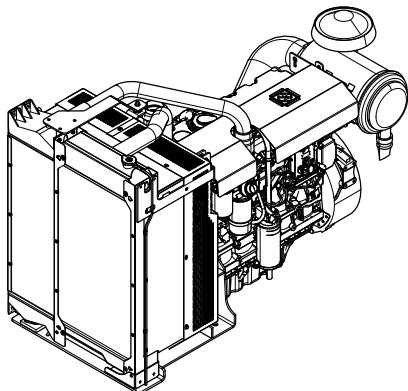
### General technical data



Model.....	WPS176D6S-EPA
Structure type .....	R
Tank capacity.....	420L
Dry weight.....	2673kg
Sound pressure level @7m .....	N/A
Sound power level acc. 2000/14/EC .....	N/A
Dimensions L×W×H.....	3468x1262x1843mm
Standby Power .....	219kVA/175kW
Prime Power .....	200kVA/160kW

Voltage	208V	220V	230V	240V	
Ampere	488.5A	461.9A	441.8A	423.4A	
<b>Genset Fuel Consumption</b>					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	14.3	23.6	38.8	48.3	52.2

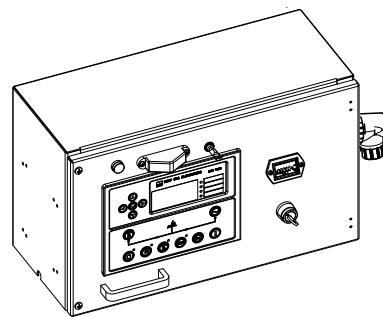
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Engine Manufacturer/Brand.....	Perkins
Engine Model.....	1106D-E70TAG4
Dimensions L×W×H.....	1763×788×1140mm
Dry Weigh (approx.) .....	788kg
Number of Cylinders.....	6
Bore .....	105mm
Stroke.....	135mm
Displacement.....	1.....6.6L
Compression Ratio.....	16.8
Type of Injection .....	Direct injection
Intake System.....	Turbocharged and air charge cooled
Intake Resistance.....	<4kPa
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage .....	12V
Type of Fuel.....	BS2869, 1998 Class A2 or BS EN590
Type of Oil .....	API-CH4/CI4
Oil Capacity .....	17.5L
Type of Coolant .....	Glycol mixture
Coolant Capacity .....	21L
Back Pressure .....	≤15kPa
Standby Power .....	209.4kW
Prime Power .....	190.4kW
Fuel Consumption(100%load).....	211.9g/kWh

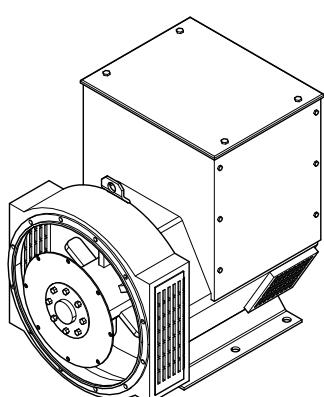
Alternator Manufacturer/Brand .....	Leroy Somer
Alternator Model .....	LSA 44.3 VL14
Exciter.....	Brushless
Cooling Fan .....	Cast alloy aluminum
Windings.....	100% copper
Insulation Class .....	H
Winding Pitch.....	2/3
Terminals .....	12
Drip Proof .....	IP23
Altitude.....	≤1000m
Overspeed .....	2250rpm
Air Flow.....	0.514m³/s(50Hz),0.617m³/s(60Hz)
Voltage Regulation .....	±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

## PLC-7420 Control System

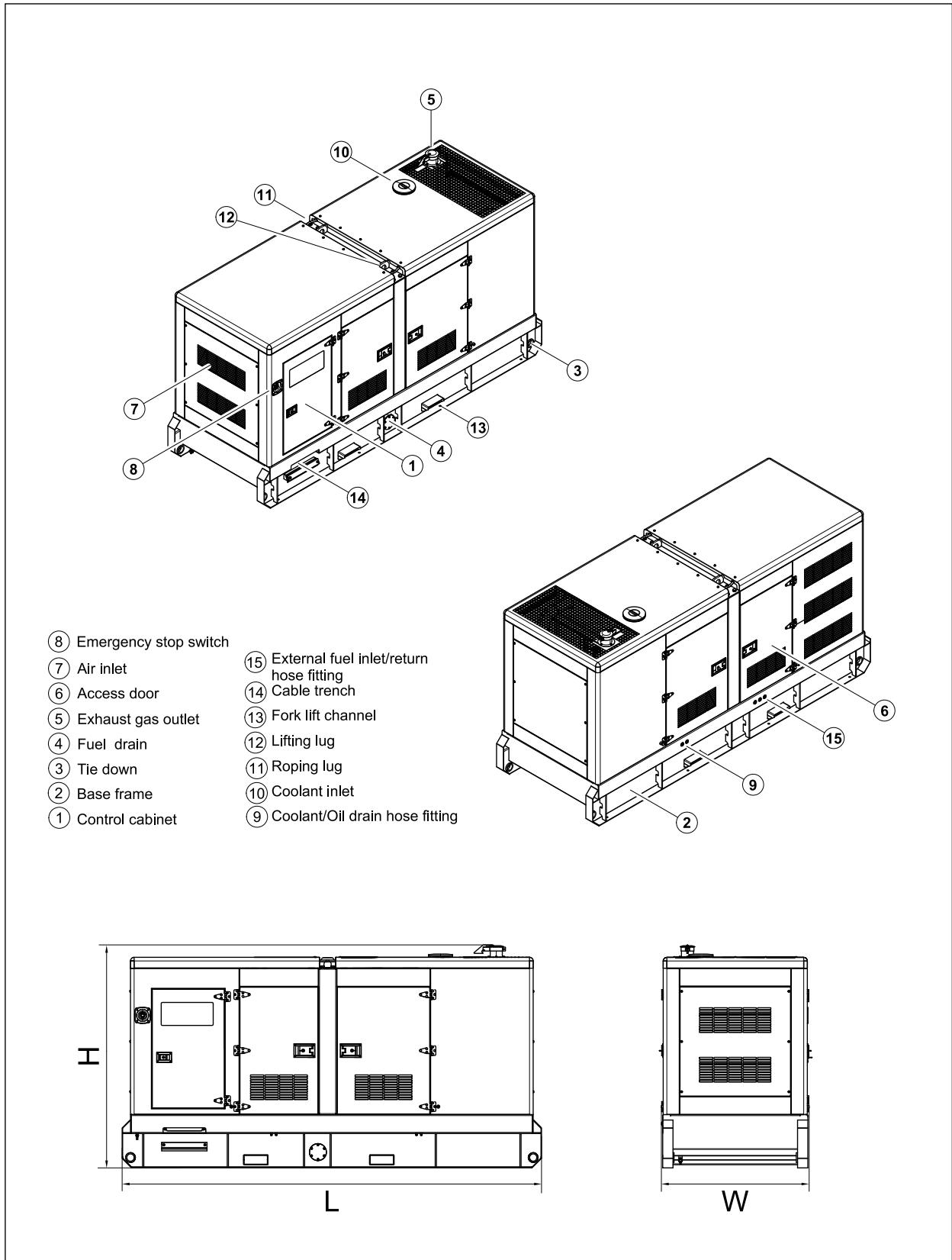


PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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

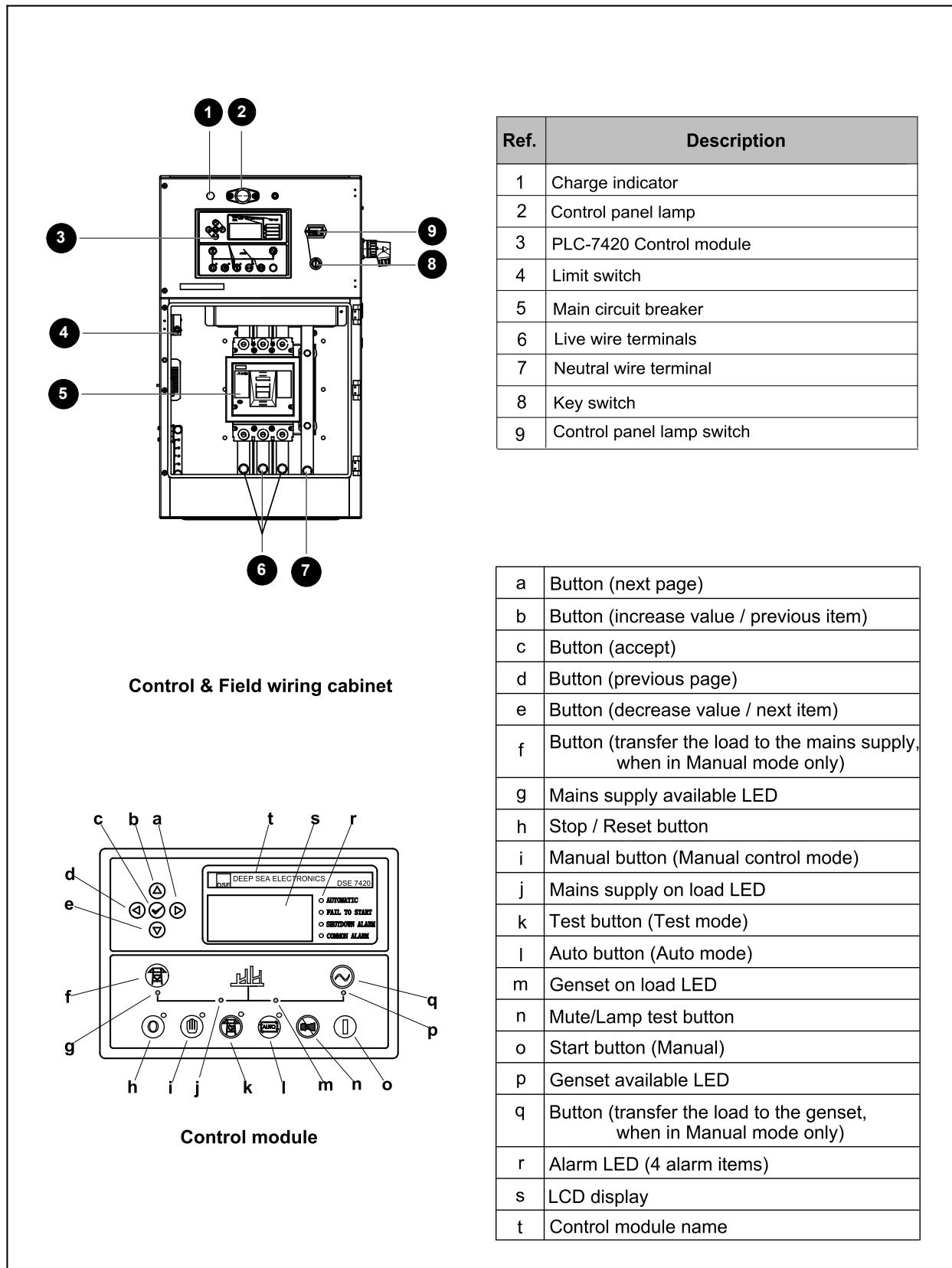
- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual,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



## 5 Control System



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11.2022

<http://www.powerlinkworld.com>

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

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