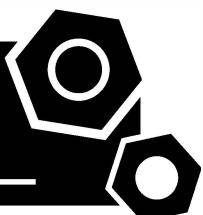


**Generator set**  
**Sound-proof type**  
**WPS64D6S-EPA**

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

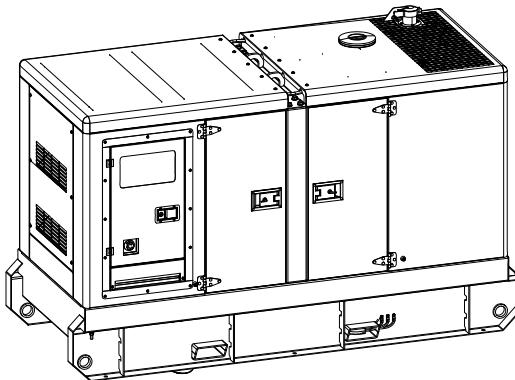
## 2 General Features

- Perkins engine 1104D-E44TG1
- Close coupled to Leroy-somer alternator LSA44.3S2
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 250A
- Rotate speed governor: ECU
- Excitation System: Self excited,SHUNT
- A.V.R.Model: R250
- Key switch
- Emergency stop switch

- ATS (automatic transfer switch) receptacle
- 1x12V/70AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy of aluminum plate
- 50°C radiator
- Stainless steel muffler
- Steel base frame with forklift slots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 8 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

## 3 Equipment Specification

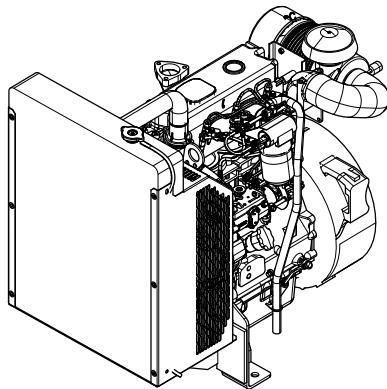
### General technical data



Model.....	WPS64D6S-EPA
Structure type .....	R
Tank capacity.....	180L
Dry weigh.....	1692kg
Sound pressure level @7m.....	69.7dB(A)
Dimensions L×W×H.....	2788x1165x1700mm
Standby Power .....	81kVA/65kW

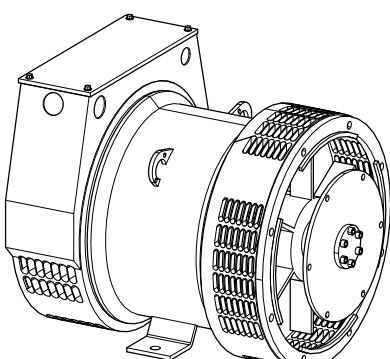
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	N/A	11.2	16.9	22.3	24.5

## Diesel Engine



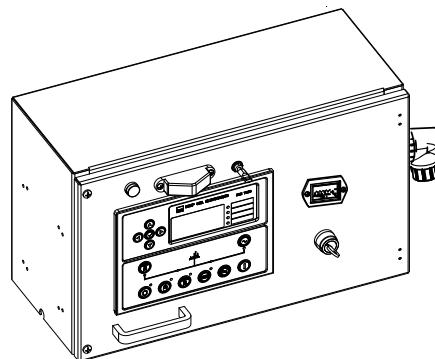
Engine Manufacturer/Brand.....	Perkins
Engine Model.....	1104D-E44TG1
Dimensions L×W×H.....	1280×717×967mm
Dry Weigh (approx.) .....	439kg
Number of Cylinders.....	4
Bore .....	105mm
Stroke .....	127mm
Displacement.....	4.4L
Compression Ratio .....	16.7
Type of lnijection.....	Direct injection
Intake System.....	Turbocharged
Intake Resistance.....	≤8kPa
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage .....	12V
Type of Fuel....	RF75-T-96 / DIN EN590 / BS2869 class A2
Type of Oil .....	API-CG4/ CH4
Oil Capacity .....	8.31L
Type of Coolant .....	Glycol mixture
Coolant Capacity .....	10.2L
Back Pressure .....	≤15kPa
Standby Power .....	71.4kW
Prime Power .....	64.7kW
Fuel Consumption(100%load).....	18.02L/h

## Alternator



Alternator Manufacturer/Brand .....	Leroy Somer
Alternator Model .....	LSA44.3S2
Exciter.....	Brushless
Cooling Fan .....	Cast alloy aluminum
Windings .....	100% copper
Insulation Class .....	H
Winding Pitch.....	2/3
Terminals .....	12
Drip Proof .....	IP21
Altitude.....	≤1000m
Overspeed .....	2250rpm
Air Flow.....	11.8m³/min(50Hz),14.5m³/min(60Hz)
Voltage Regulation .....	±1.0%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<45

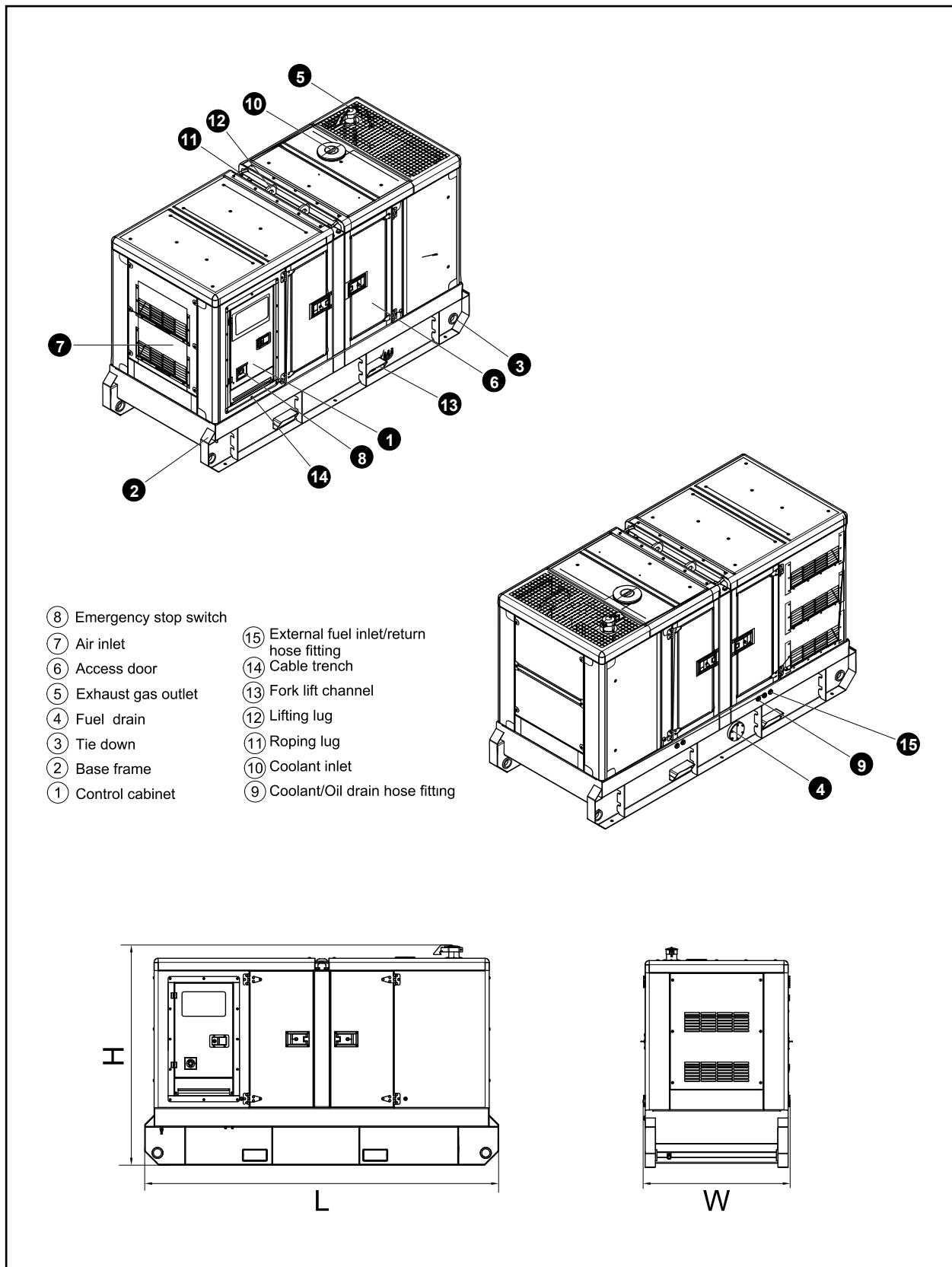
## PLC-7420 Control System



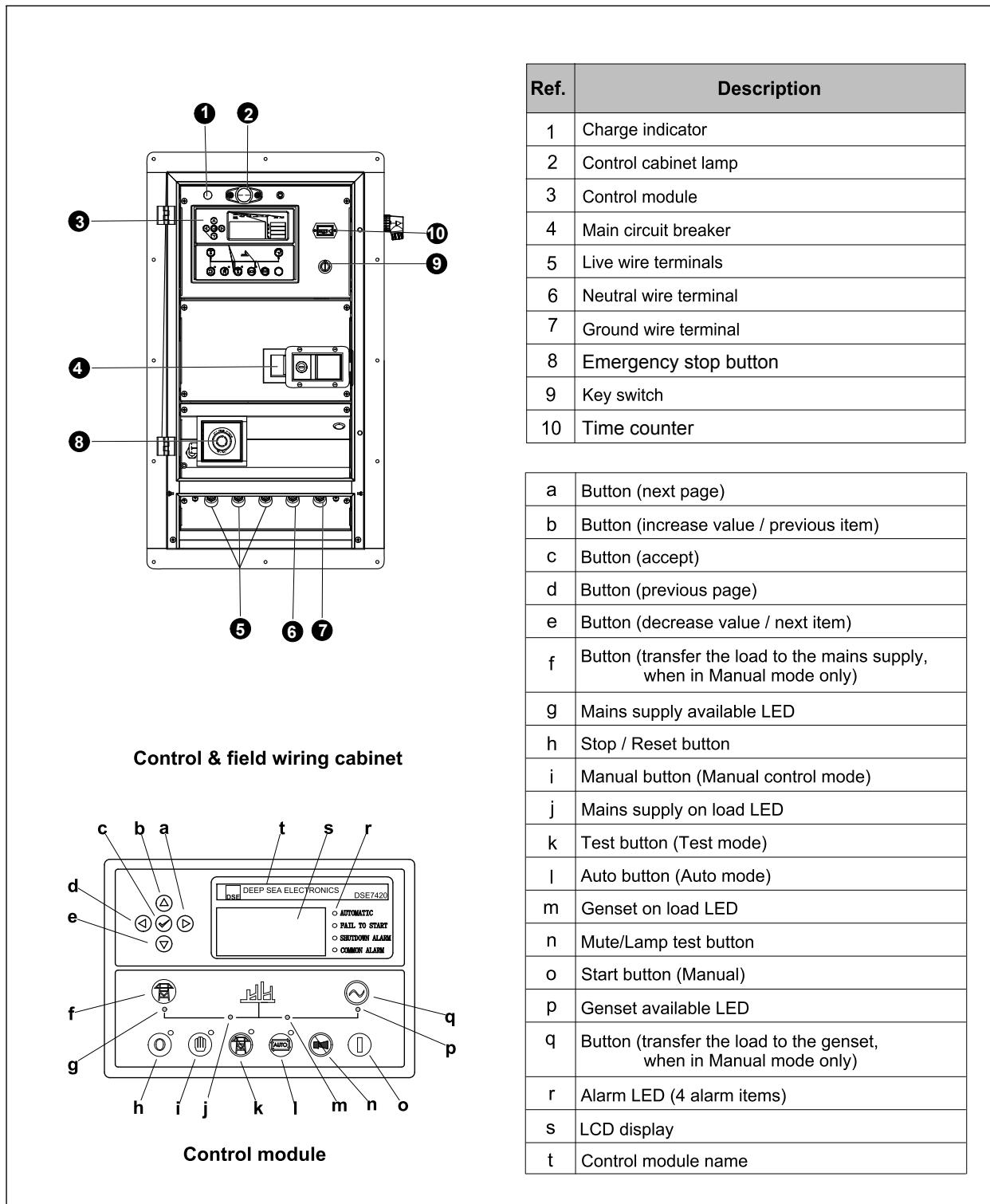
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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