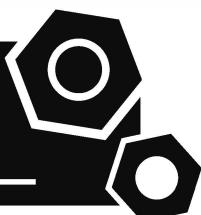


Generator set
Sound-proof type
WPS200D6S-EPA

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- ISO8528
- GB/T2820
- YD/502-2007
- JB/T20136-2006

Electrical devices have obtained the certification of:

- CSA
- UL

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

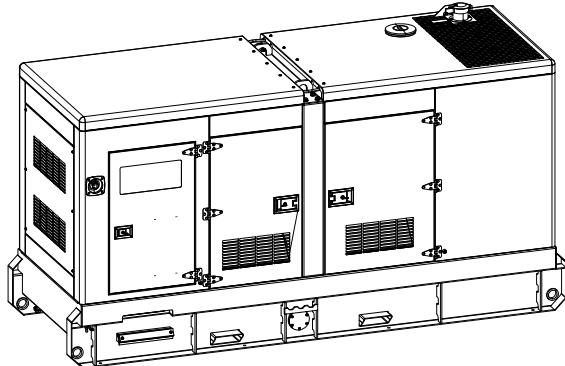
2 General Features

- Perkins engine 1106D-E70TAG5
- Close coupled to LSA alternator LSA46.3S4
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 800A
- Rotate speed governor: ECU
- 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 of aluminum plate
- 50°C radiator
- Stainless steel muffler
- Non-returning valve for fuel inlet hose of the engine
- Steel base frame with forklift slots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 7 hours running
- Drain points for fuel tank
- Breather valve for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

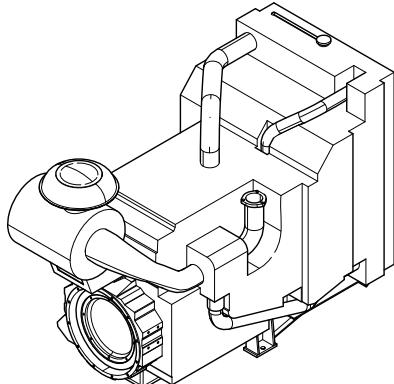
General technical data



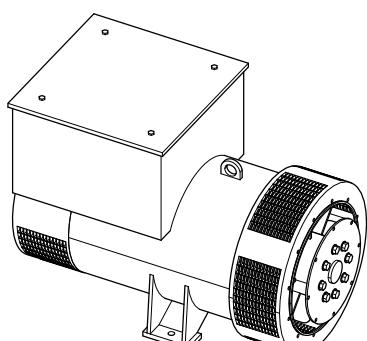
| | |
|-------------------------------|------------------|
| Model..... | WPS200D6S-EPA |
| Structure type | R |
| Tank capacity..... | 420L |
| Dry weight..... | 2812kg |
| Sound pressure level @7m..... | 75.4dB(A) |
| Dimensions LxWxH..... | 3468x1221x1836mm |
| Standby Power | 250kVA/200kW |
| Voltage/Ampere | 208V/693A |

| Genset Fuel Consumption | | | | | | |
|-------------------------|------|------|------|------|------|--|
| Frequency/Load | 25% | 50% | 75% | 100% | 110% | |
| 60Hz (L/h) | 16.0 | 29.5 | 43.5 | 54.4 | 59.1 | |

Diesel engine

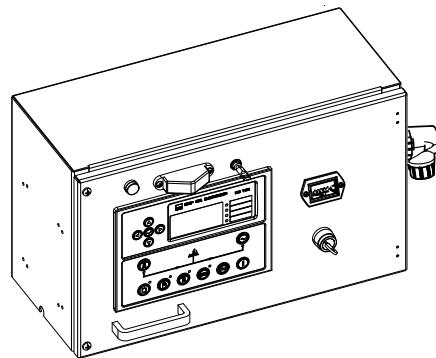


| | |
|----------------------------------|---------------------------------------|
| Engine Manufacturer/Brand..... | Perkins |
| Engine Model..... | 1106D-E70TAG5 |
| Dimensions LxWxH..... | 1763x788x1142mm |
| Dry Weight (approx.) | 788kg |
| Number of Cylinders..... | 6 |
| Bore | 105mm |
| Stroke | 135mm |
| Displacement..... | 7.0L |
| Compression Ratio..... | 16.8 |
| Type of injection..... | Direct injection |
| Intake System..... | Turbocharged,air-to-air charge cooled |
| Intake Resistance..... | $\leq 8.0\text{kPa}$ |
| Cooling System | Water cooled |
| Fan | Pusher |
| Battery Voltage | 12V |
| Type of Fuel..... | BS 2869 1998 CLASS A2 or BSEN590 |
| Type of Oil | 0W-30 |
| Oil Capacity | 17.5L |
| Type of Coolant | Glycol mixture |
| Coolant Capacity | 21L |
| Back Pressure | $\leq 10\text{kPa}$ |
| Heat Rejected To Exhaust System. | 180kW(10242BTU/min) |
| Heat Rejected To Water&Oil..... | 98kW(5576BTU/min) |
| Standby Power | 235kW |
| Prime Power | 218kW |
| Fuel Consumption(100%load)..... | 54.4L/h |



| | |
|--|-------------------------------|
| Alternator Manufacturer/Brand | LSA |
| Alternator Model | LSA46.3S4 |
| 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..... | 0.48m³/s(50Hz),0.58m³/s(60Hz) |
| Voltage Regulation | $\pm 0.5\%$ |
| Total harmonic TGH / THCno load < 2.5 % - on load < 2.5% | |
| Telephone Interference..... | THF<2%;TIF<50 |

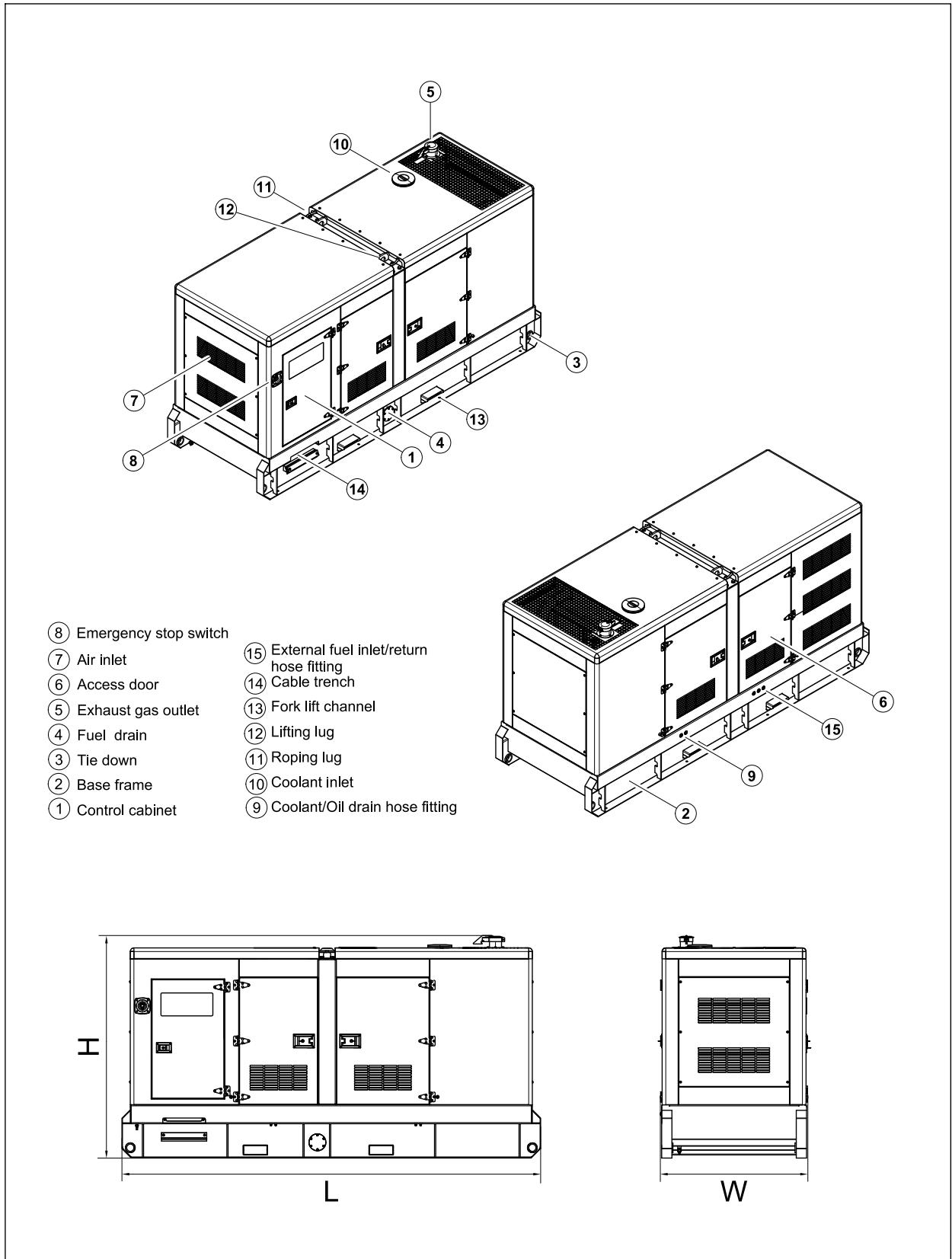
PLC-7420 Control System



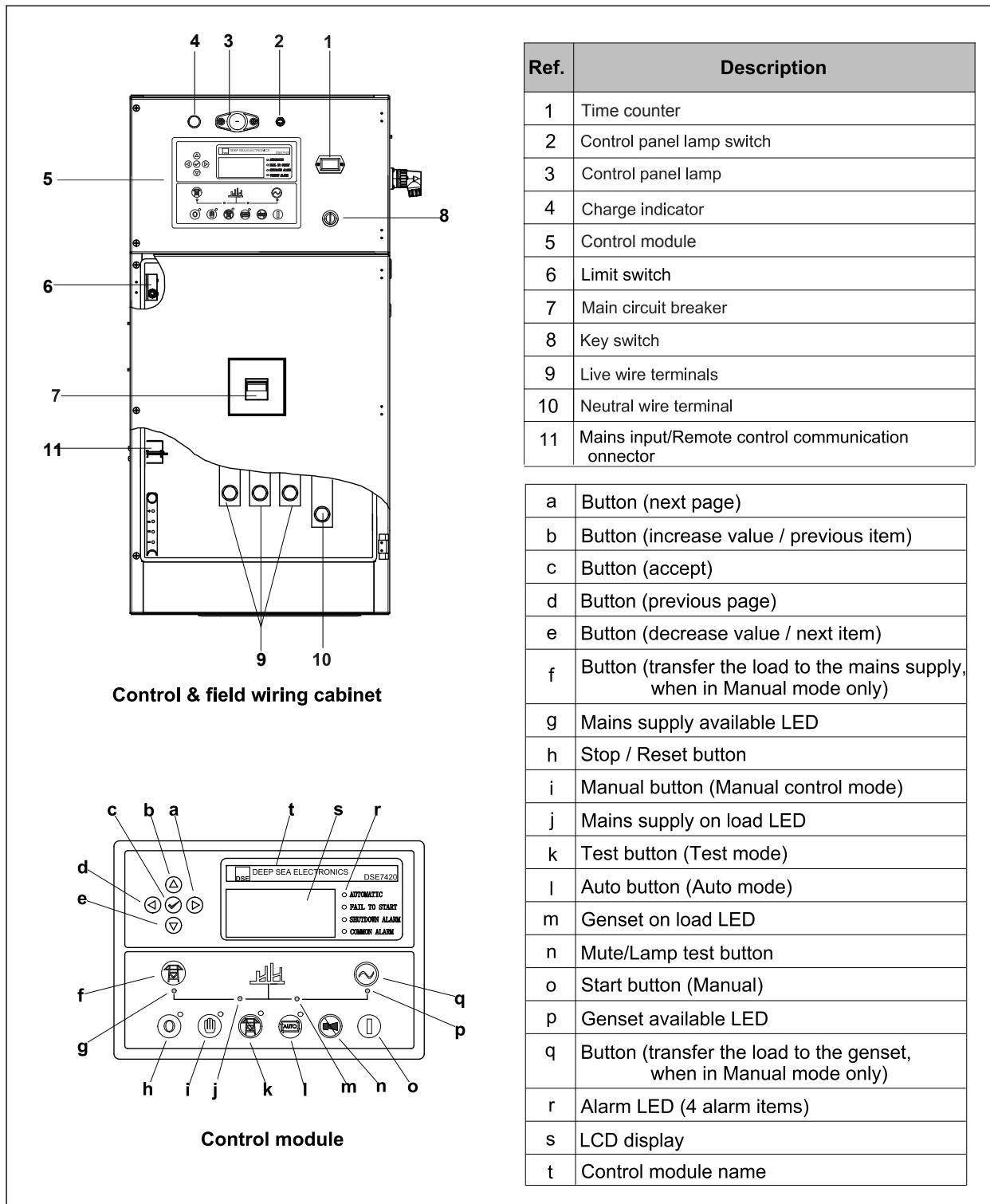
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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



| |
|-----------------|
| 1000033158-B2-E |
| 09.2023 |

<http://www.powerlinkworld.com>

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