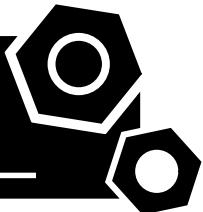


Generator set
Sound-proof type
WPS154D6S-EPA

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 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.

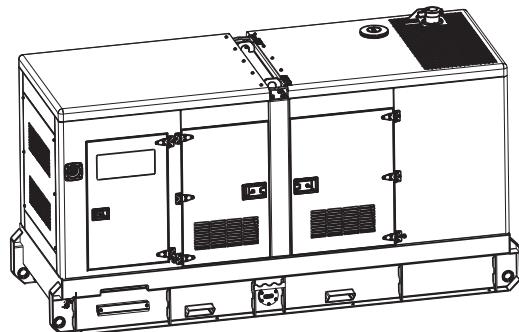
2 General Features

- Perkins engine 1106D-E70TAG3
- Close coupled to Leroy-somer alternator LSA44.3L12
- Microprocessor control module PLC-7420
- Communication gateway DSE 892
- ABB main circuit breaker: 500A
- 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/120AH 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 7 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

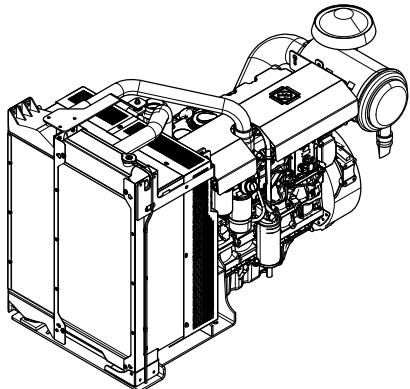
General technical data



Model.....	WPS154D6S-EPA
Structure type	R
Tank capacity.....	300L
Dry weight.....	2493kg
Noise level @7m	75.4dBA
Dimensions L×W×H.....	3468×1222×1843mm
Standby Power	191kVA/153kW
Prime Power.....	170kVA/136kW

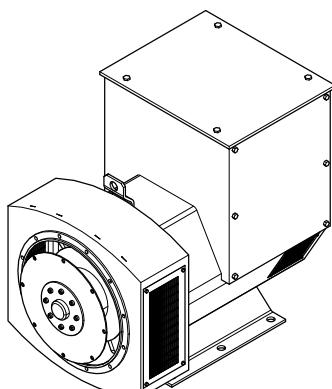
Voltage	208V	220V	230V	240V	
Ampere	471A	446A	428A	409A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	11	21	30	38	42

Diesel Engine



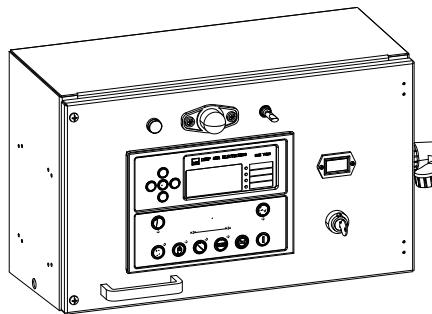
Engine Manufacturer/Brand.....	Perkins
Engine Model.....	1106D-E70TAG3
Dimensions L×W×H.....	1728×780×1140mm
Dry Weigh (approx.)	788kg
Number of Cylinders.....	6
Bore	105mm
Stroke.....	127mm
Displacement.....	6.6L
Compression Ratio.....	16.2
Type of Injection	Direct injection
Intake System.....	Turbocharged, air-to-air charge cooled
Intake Resistance.....	<8kPa
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	16.5L
Type of Coolant	Glycol mixture
Coolant Capacity	21L
Back Pressure	≤15kPa
Standby Power	171.4kW
Prime Power	154.4kW
Fuel Consumption(100%load).....	218g/kWh

Alternator



Alternator Manufacturer/Brand	Leroy-somer
Alternator Model	LSA44.3L12
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	2250 rpm
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

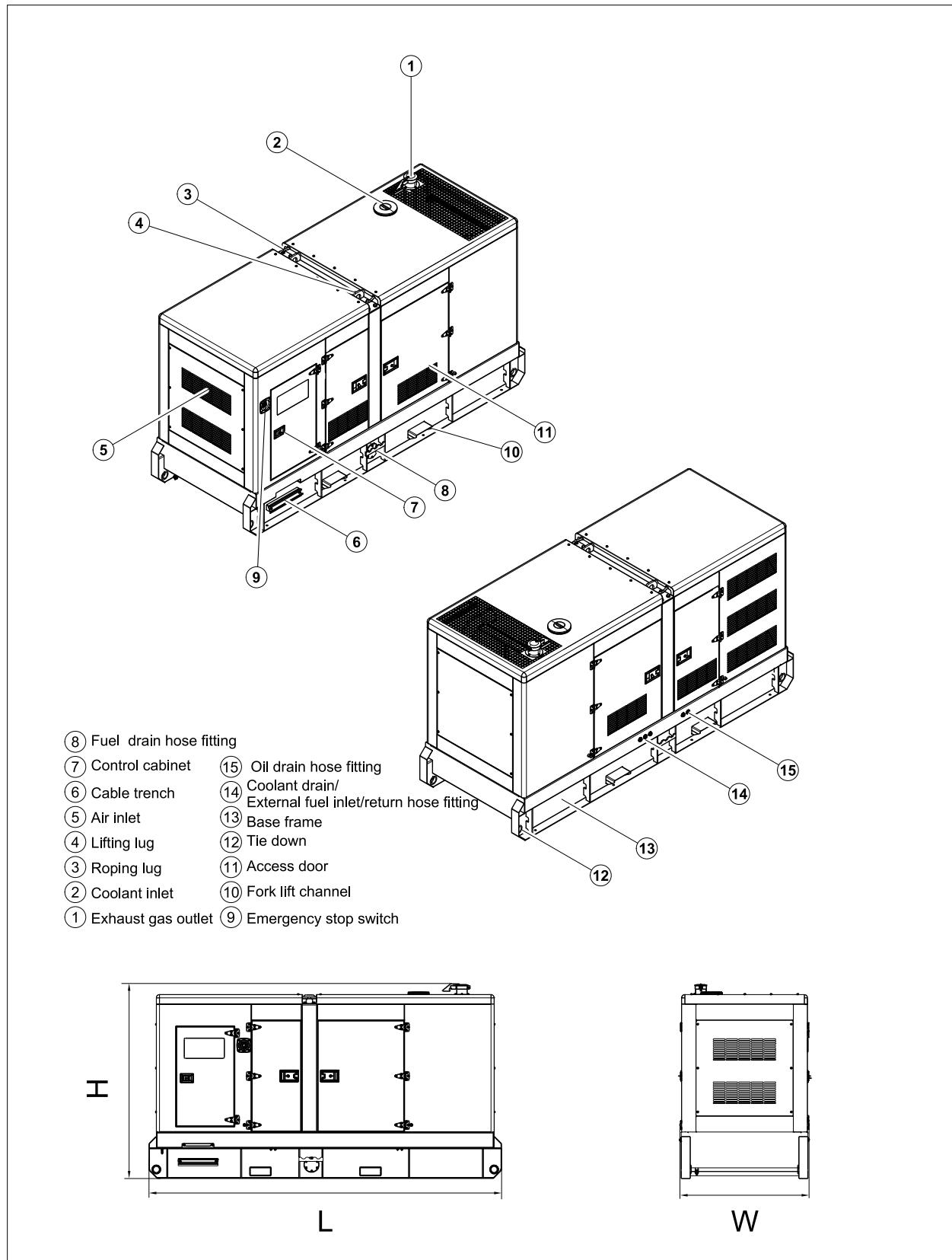
PLC-7420 Control System



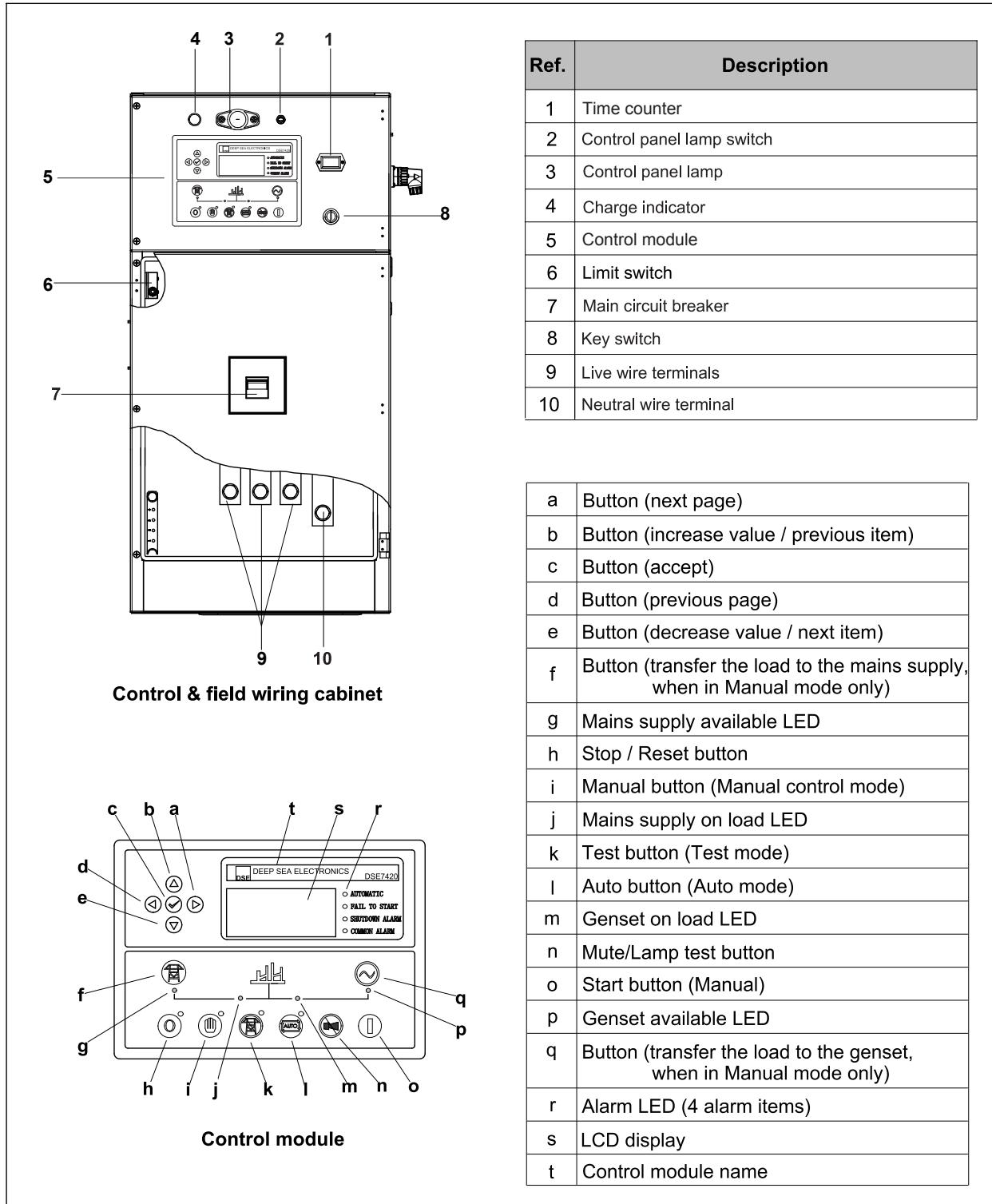
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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



1000033156-D2-E
10.2023

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