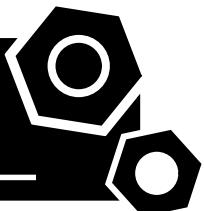


Generator set
Sound-proof type
WPS32D6S-EPA

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- ISO8528-5:2005
- GB/T2820.5-2009
- 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.

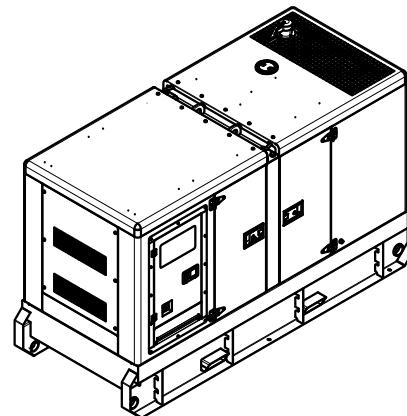
2 General Features

- Perkins engine 404D-22TAG
- Close coupled to Stamford alternator S1L2-J
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 125A
- Rotate speed governor: Mechanical governor
- Excitation system: Self-Excited / Aux winding
- A.V.R model: AS540
- 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 fork slots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 20 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment

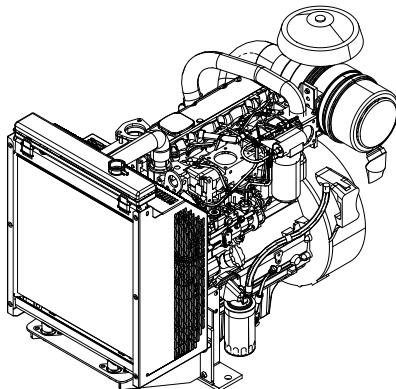
General technical data



Model.....	WPS32D6S-EPA
Structure type	R
Tank capacity.....	180L
Dry weight.....	1488kg
Noise level @7m	68.3dBA
Dimensions L×W×H.....	2300x1080x1551mm
Standby Power	40kVA/32kW
Prime Power	36kVA/29kW

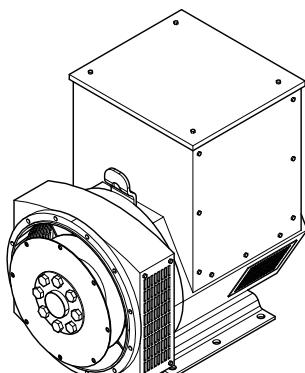
Voltage	208V	220V	230V	240V	
Ampere	100.0A	94.5A	90.4A	86.6A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	N/A	4.6	6.5	8.9	10.2

Diesel engine



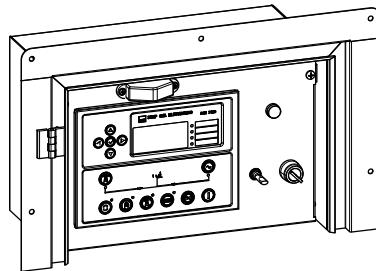
Engine Manufacturer/Brand.....	Perkins
Engine Model.....	404D-22TAG
Dimensions L×W×H.....	1050×709.8×997.5mm
Dry Weigh (approx.)	306kg
Number of Cylinders.....	4
Bore84mm
Stroke	100mm
Displacement.....	2.22L
Compression Ratio.....	23.3
Type of Injection	Direct
Intake System.....	Turbocharged
Intake Resistance.....	$\leq 6.4\text{kPa}$
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	12V
Type of Fuel.....	BS 2869 Class 2 or ASTM D975 D2
Type of Oil	API CH4/ACEA E5
Oil Capacity	10.6L
Type of Coolant	Glycol mixture
Coolant Capacity	3.6L
Back Pressure	$\leq 10.2\text{kPa}$
Standby Power	36.4kW
Prime Power	33.1kW
Fuel Consumption(100%load).....	8.9L/h

Alternator



Alternator Manufacturer/Brand	Stamford
Alternator Model	S1L2-J
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.....	0.216 m ³ /sec(50Hz), 0.281 m ³ /sec(60Hz)
Voltage Regulation	$\pm 1.0\%$
Total Harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

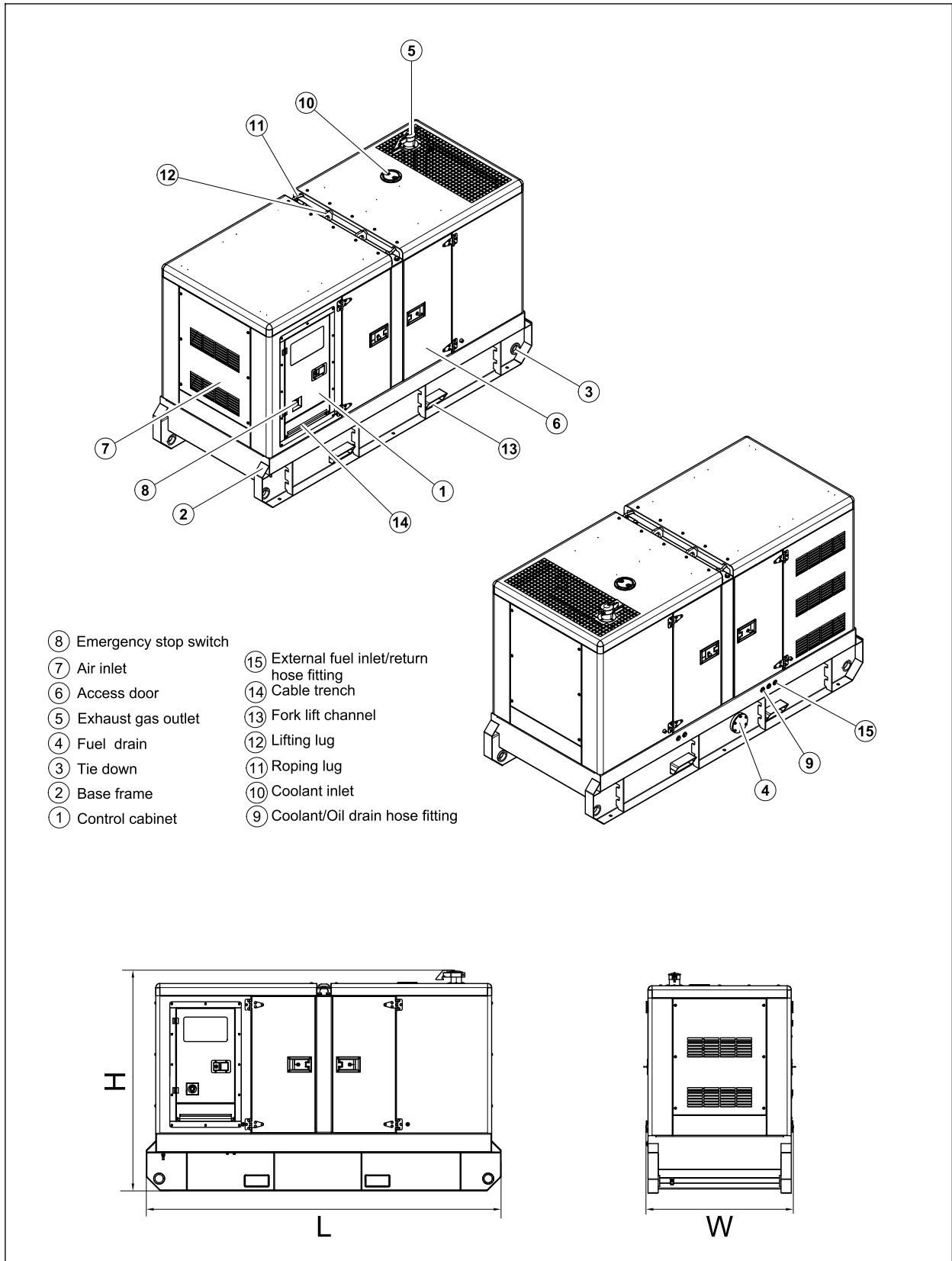
PLC-7420 Control System



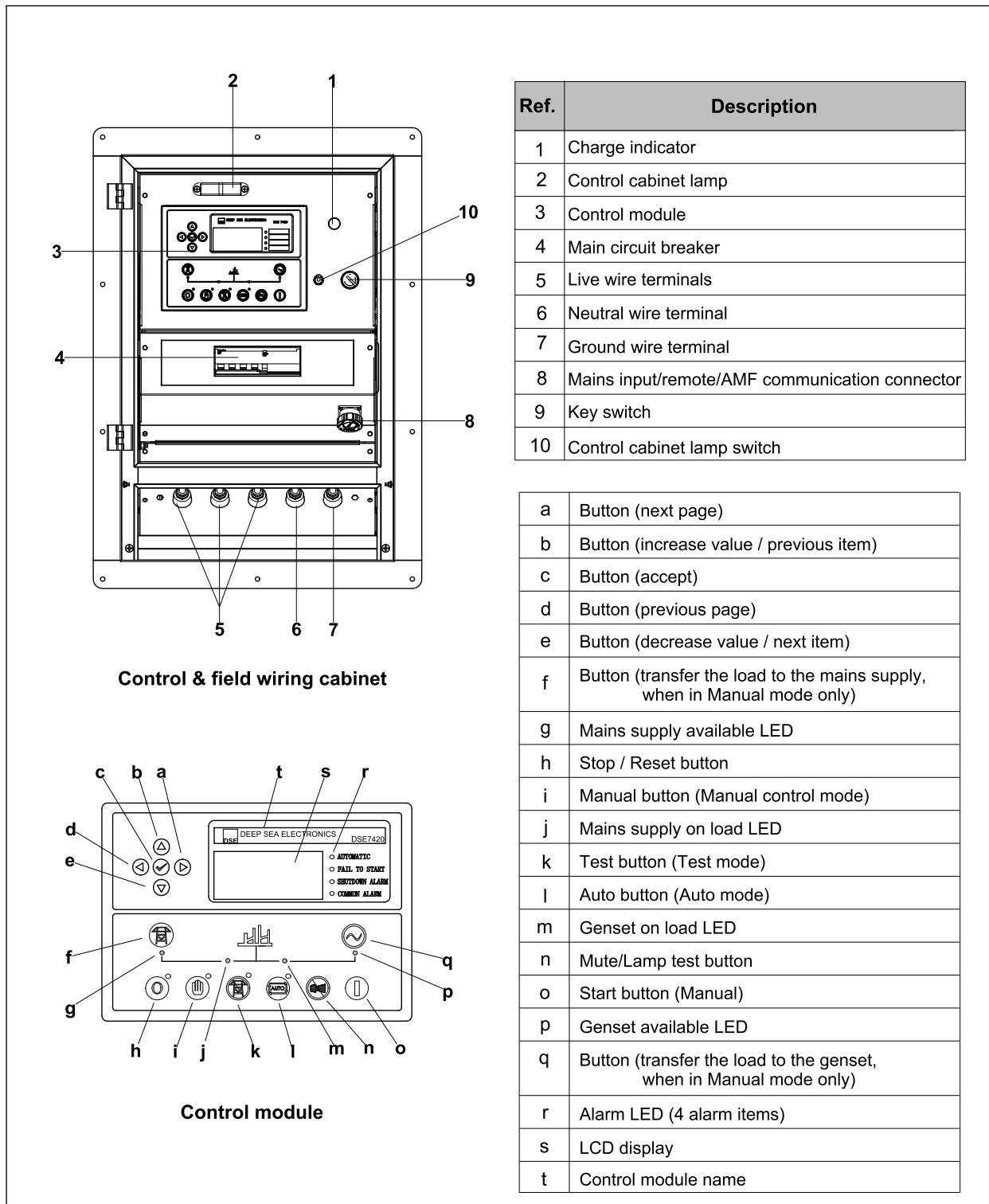
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and 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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03.2023

<http://www.powerlinkworld.com>

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