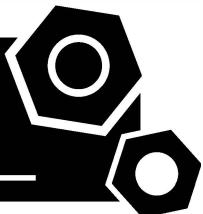


Generator set
Sound-proof type
WPS308D6S-EPA

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

- ATS (automatic transfer switch) receptacle
- 2x12V/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 forklift slots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 5 hours running
- Drain points for fuel tank
- Operation Manual/ Specifications

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

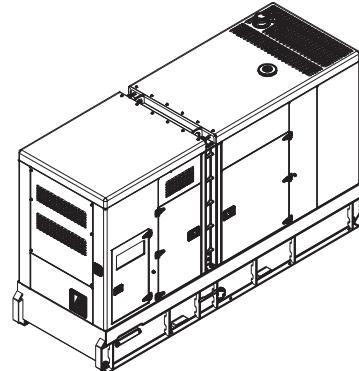
- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Perkins engine 1506D-E88TAG5
- Close coupled to Stamford alternator S4L1D-D
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 1000A
- Rotate speed governor: ECU
- Excitation system: Self excited, SHUNT
- A.V.R model:AS440
- Key switch
- Emergency stop switch

3 Equipment Specification

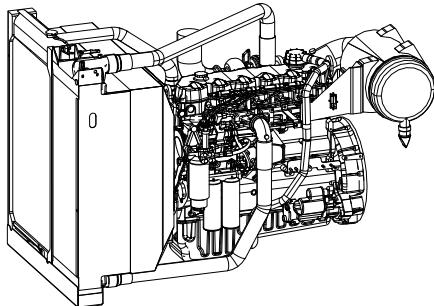
General technical data



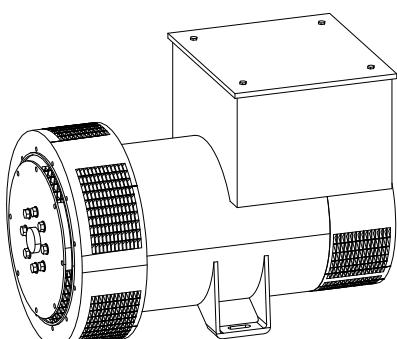
Model.....	WPS308D6S-EPA
Structure type	R
Tank capacity.....	420L
Dry weight.....	4493kg
Sound pressure level @7m	75.3dBA
Dimensions L×W×H.....	4242x1400x251mm
Standby Power	385kVA/308kW
Prime Power	350kVA/280kW

Voltage	208V	220V	230V	240V	
Ampere	854.9A	808.3A	773.2A	740.9A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	N/A	49.2	66.4	78.5	86.0

Power System

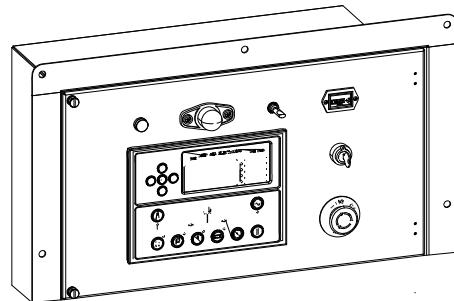


Engine Manufacturer/Brand.....	Perkins
Engine Model.....	1506D-E88TAG5
Dimensions L×W×H.....	2173×1129×1725mm
Dry Weigh (approx.)	1175Kg
Number of Cylinders.....	6
Bore	112mm
Stroke	149mm
Displacement.....	8.8L
Compression Ratio.....	16.1
Type of injection.....	Direct injection
Intake System.....	Air to air aftercooled, turbocharged
Intake Resistance.....	≤6.2kPa
Cooling System	Water cooled
Fan	Pusher
Battery Voltage	24V
Type of Fuel.....	ISO 8528-5 Class G3
Type of Oil	15W40 to API CI4.
Oil Capacity	41L
Type of Coolant	Glycol mixture
Coolant Capacity	45.2L
Back Pressure	≤10kPA
Standby Power	358kW
Prime Power	328kW
Fuel Consumption(100%load).....	78.5L/h



Alternator Manufacturer/Brand	Stamford
Alternator Model	S4L1D-D
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.....	0.8m³/s(50HZ),0.99m³/s(60HZ)
Voltage Regulation	± 1.0 %
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

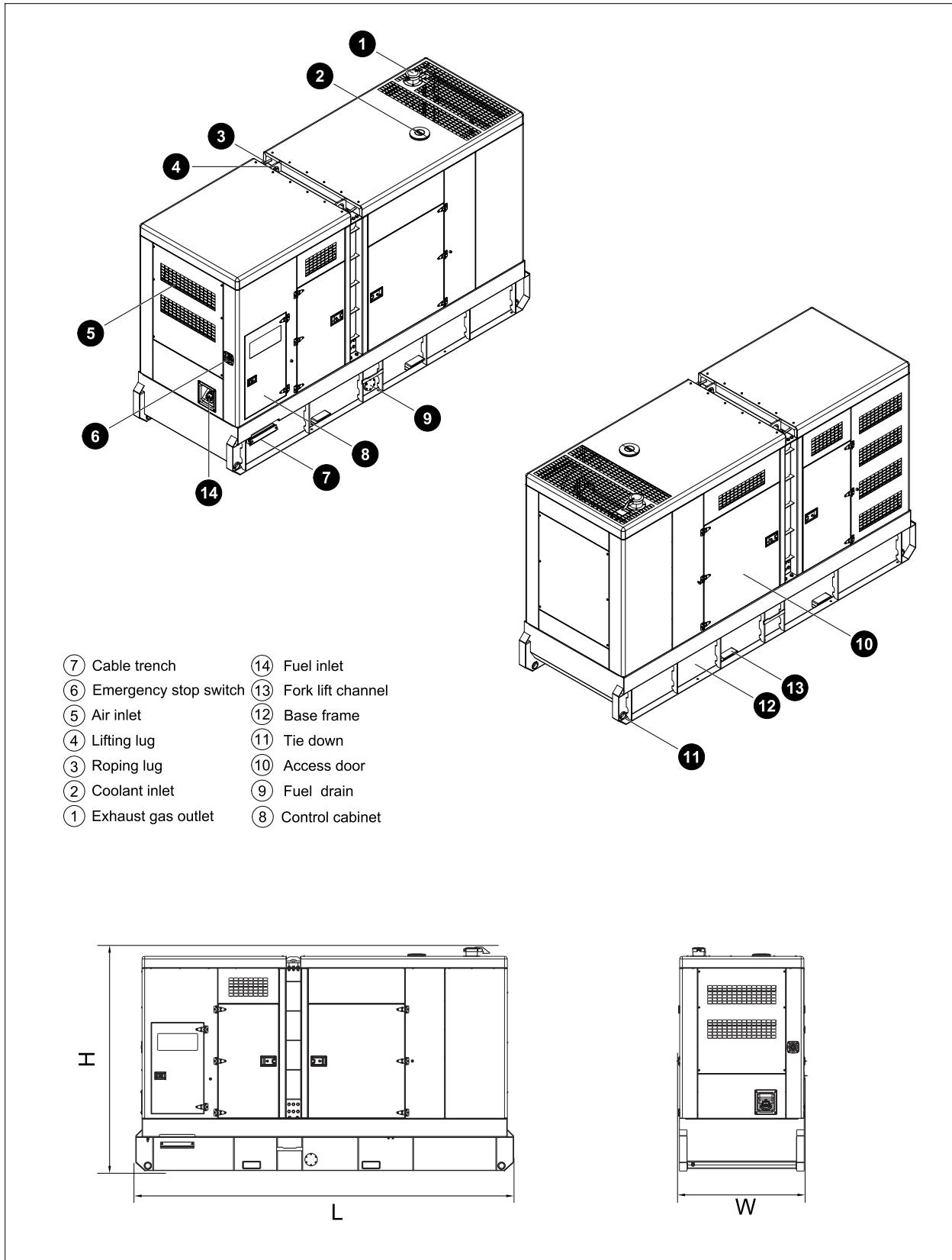
PLC-7420 Control System



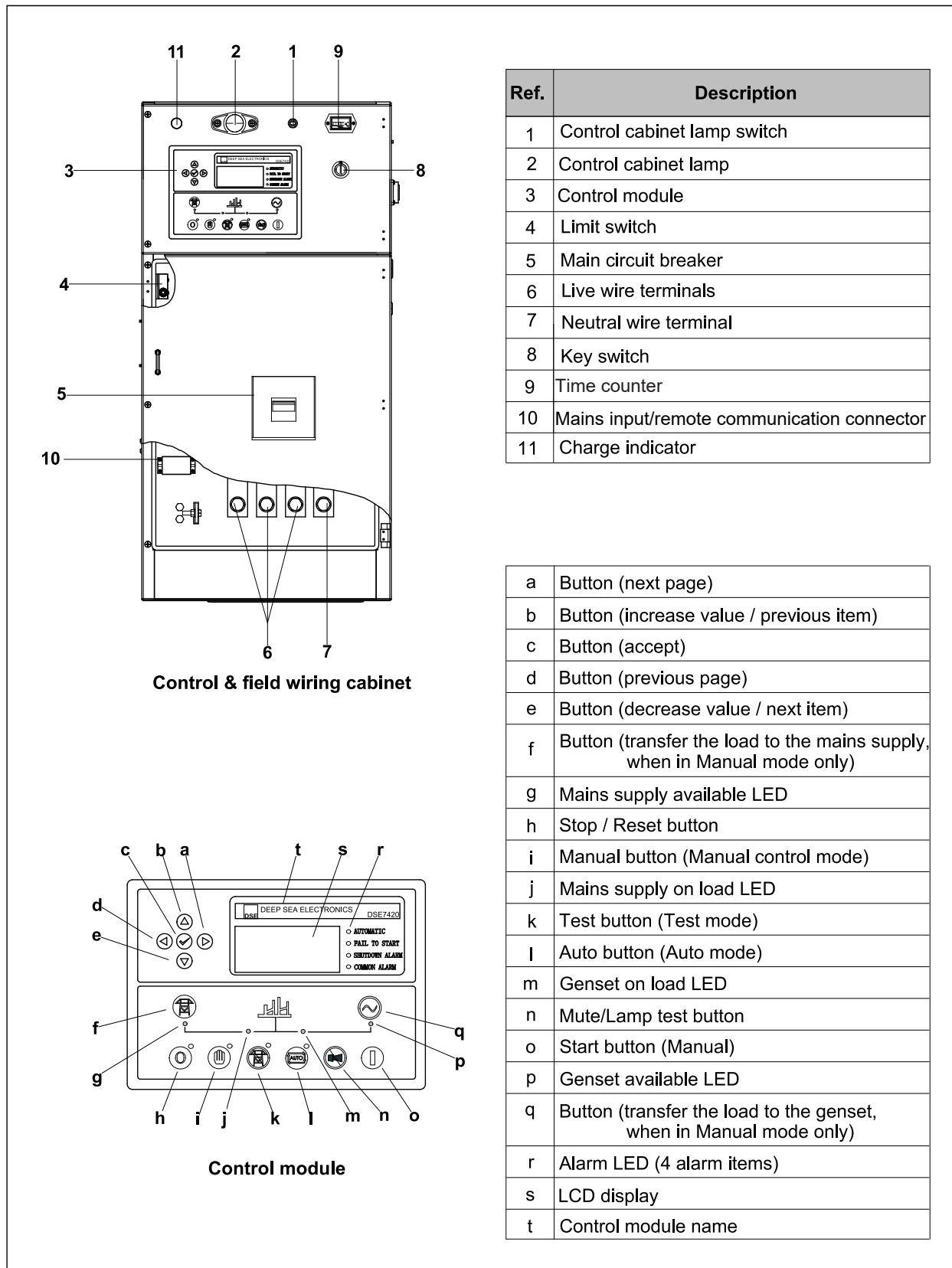
PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and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



1000033318-A2-E
11.2023

<http://www.powerlinkworld.com>

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

©2023 POWERLINK