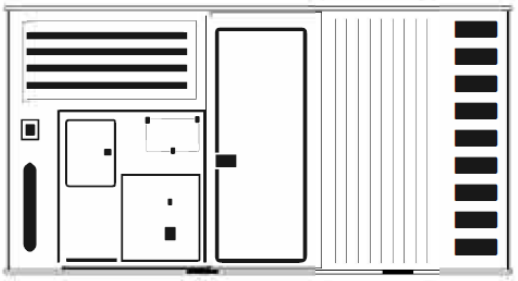
Cummins 1250 kVA



Generator set
Containerized type
KTA38-G9

SPECIFICATIONS

www.dpxpower.nl
sales@dpxpower.nl

DPX POWER
Oudlandsedijk 8
4731TB, Oudenbosch

Cummins 1250 kVA

50 Hz @ 1500rpm, 3-Phase/5-wiring

1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformite Europeenne (CE)
- ISO8528-5:2005
- AS 3000-2018
- AS 3010-2017

Environmental Operating Conditions

- Installation place: Outdoors or indoors (well ventilated).
- Ambient temperature: -25℃ to 50℃.The coolant heater is needed when the temperature is below 5℃
- Humidity: Less than 80%.
- 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

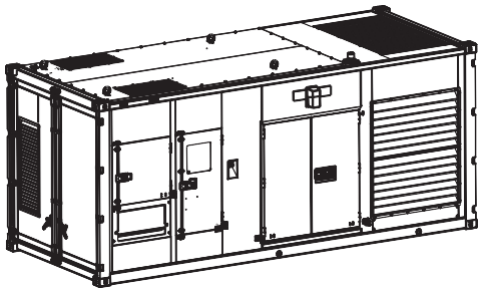
- Painting process specification and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

2 General Features

- Cummins engine KTA38-G9
- Close coupled to Stamford alternator S6L1D-C4
- Microprocessor control module PLC-8610
- ABB main circuit breaker: 2000A
- Rotate speed governor: Electronic fuel injection
- Excitation system: PMG
- A.V.R model: MX321
- Key switch
- Emergency stop switch
- Paralleling connector
- Fuel auto adding device
- 4x12V/150AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- Standard container
- 50℃ radiator
- Fire extinguisher
- Oil pump on the engine
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Fuel tank with 4 hours running
- Drain points for fuel tank
- Fuel-water separator for fuel tank
- Operation Manual / Specification

3 Equipment Specification

General technical data



Model.....KTA38-G9

Structure type C

Tank capacity..... 1165L

Dry weight..... 15059kg

Noise level @7m 73.1dBA

Dimensions L×W×H.....6058x2438x2591mm

Standby Power..... 1250kVA/1000kW

Prime Power..... N/A

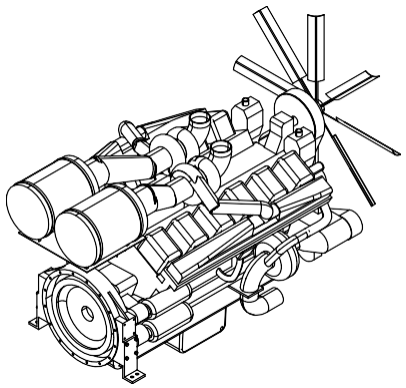
Voltage	380V	400V	415V	440V
Ampere	1899A	1804A	1739A	1640A
Genset Fuel Consumption				
Frequency/Load	25%	50%	75%	100%
50Hz (L/h)	79	137	196	256

www.dpxpower.nl
sales@dpxpower.nl

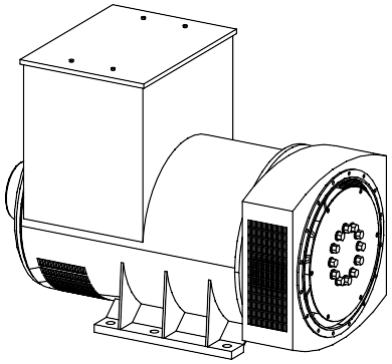
DPX POWER
Oudlandsedijk 8
4731TB, Oudenbosch

Cummins 1250 kVA

Power System

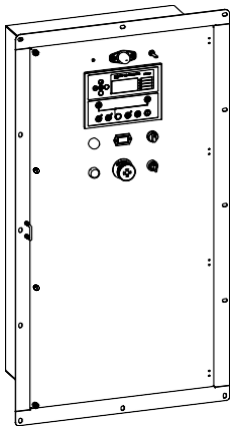


Engine Manufacturer/Brand .....Cummins
Engine Model..... KTA38-G9
Dimensions L×W×H..... 2188x1362x1630
Dry Weigh (approx.) .....3723kg Number of Cylinders
..... 12
Bore 159mm
Stroke 159mm
Displacement..... 37.8L
Compression Ratio..... 13.9
Type of injection..... Direct
Intake System..... Turbocharged
Intake Resistance..... 6.23kPa
Cooling System ..... Water cooled
Fan..... Pusher
Battery Voltage.....V
Type of Fuel ..... No.2 Diesel
Type of Oil CF4/SG15W-40
Oil Capacity.....135L
Type of Coolant ..... Glycol mixture
Coolant Capacity.....199L
Back Pressure ..... ≦ 10kPa
Standby Power.....1089kW
Fuel Consumption(100%load)..... 256L/h



Alternator Manufacturer/Brand..... Stamford
Alternator Model S6L1D-C4
Exciter..... Brushless
Cooling Fan..... Cast alloy aluminum
Windings ..... 100% copper
Insulation Class ..... H
Winding Pitch.....2/3
Terminals 6
Drip Proof..... P23
Altitude..... ≤1000m
Overspeed .....2250 rpm
Air Flow..... 1.614m³/s(50HZ),1.961m³/s(60HZ)
Voltage Regulation ..... ±0.5%
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%
Telephone Interference ..... THF<2%;TIF<50

PLC-8610 Control System



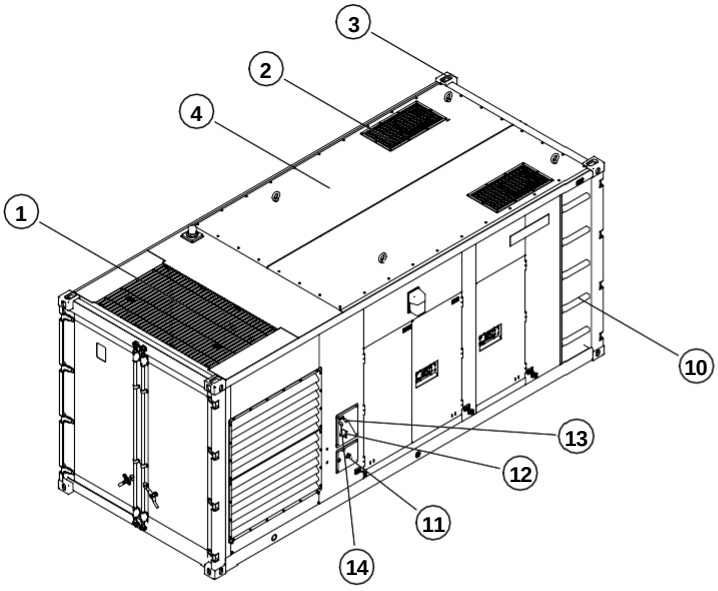
PLC-8610 is a microprocessor based control unit containing all necessary functions for protection of the genset and the breaker control. Furthermore, it contains all necessary three-phase measuring circuits and presents all values and alarms on the LCD display. The module has the function of load sharing which enables the module to share the ac- tive load (kW) equally when operating in parallel with other gensets. The load sharing is performed so each genset takes a portion of the load that is calculated in percent according to the nominal power.

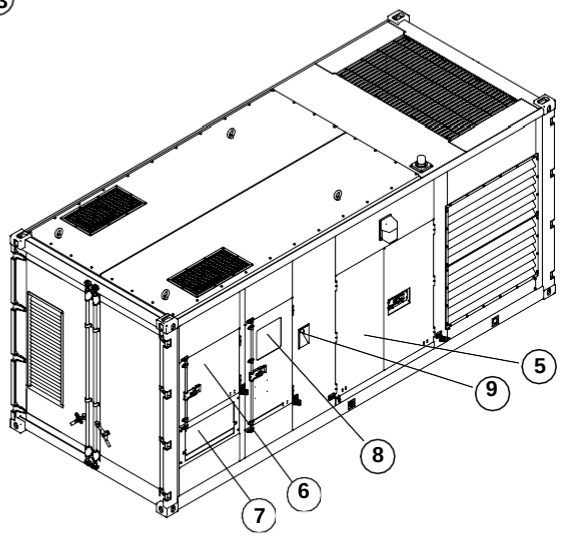
- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and remote work mode selectable
- RS232 & RS485 can be used at the same time
- Real time clock for time and date display, overall runtime display, 250 log entries

www.dpxpower.nl
sales@dpxpower.nl

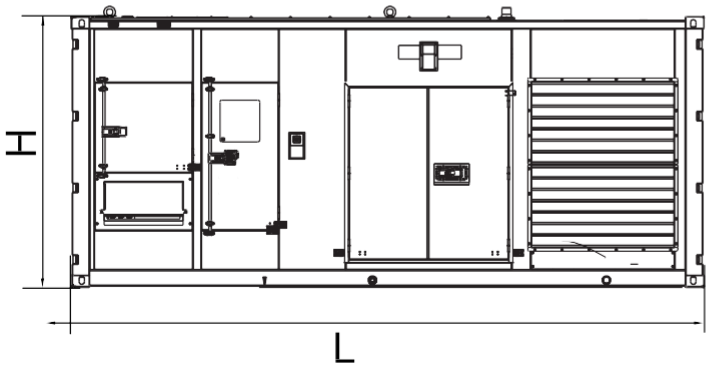
DPX POWER
Oudlandsedijk 8
4731TB, Oudenbosch

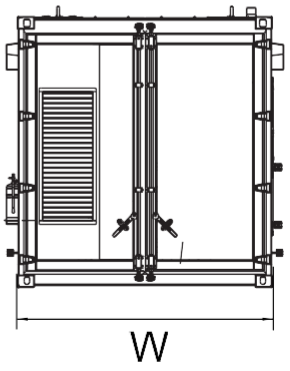
4 Overall Dimensions



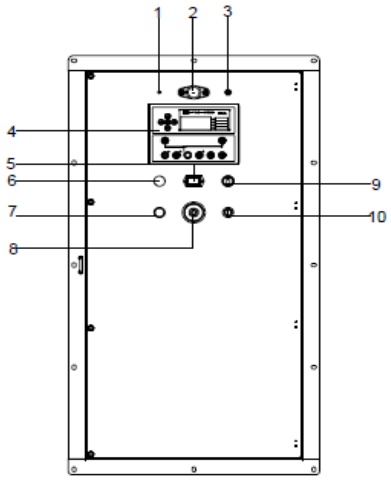


7	Cable trench	14	Fuel inlet
6	Switch cabinet	13	Fuel outlet
5	Access door	12	Fuel drain
4	Exhaust muffler	11	LUB.oil outlet
3	Lifting lug Exhaust	10	Stairs
2	gas outlet Air	9	Emergency stop button
1	outlet	8	Control cabinet



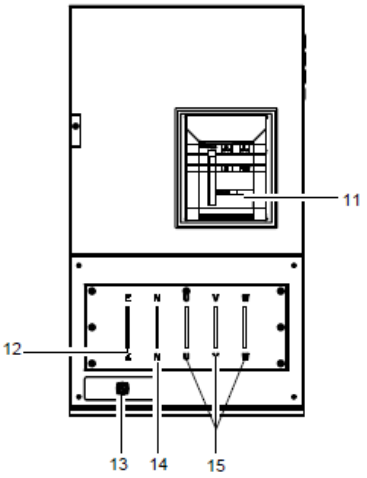


5 Control system

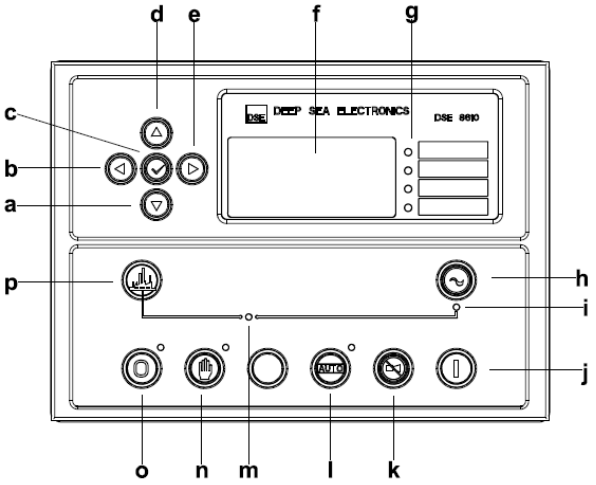


Control cabinet

Ref.	Description
1	Charge indicator
2	Control cabinet lamp
3	Control cabinet lamp switch
4	Control module
5	Time counter
6	Genset close indicator
7	Genset open indicator
8	Emergency stop switch
9	Alarm reset button
10	Key switch
11	Main circuit breaker
12	Ground wire terminal
13	Paralleling connectors
14	Neutral wire terminal
15	Live wire terminals



Field wiring cabinet



Control panel

a	Decrease value / next item
b	Previous page
c	Accept
d	Increase value / previous item
e	Next page
f	LCD display
g	Four alarm LEDs
h	Close genset
i	Genset available LED
j	Manual start
k	Mute alarm / lamp test
l	Auto mode (with LED)
m	Genset breaker on LED
n	Manual mode (with LED)
o	Stop / reset (with LED)
p	Open genset

Cummins 1250 kVA

www.dpxpower.nl
sales@dpxpower.nl

DPX POWER
Oudlandsedijk 8
4731TB, Oudenbosch