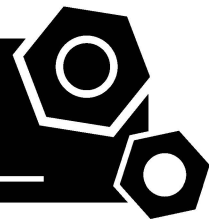


**Generator set**

**Containerized type**

**PL1250PL**

**SPECIFICATIONS**



# EP series PL1250PL

50 Hz @ 1500rpm, 3-Phase/4-wiring



## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- Conformance Européenne (CE)
- ISO8528-5:2005
- AS 3000-2018
- AS 3010-2017

### 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 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.

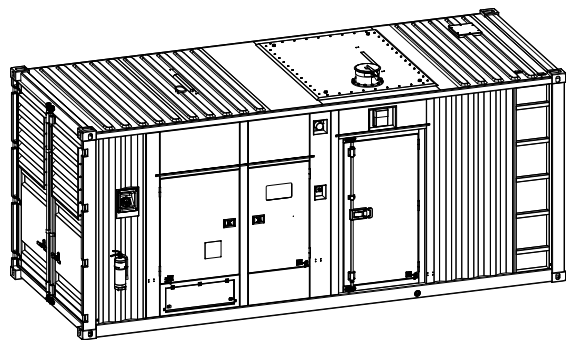
## 2 General Features

- Perkins engine 4008-30TAG3
- Close coupled to Leroy-Somer alternator LSA50.2M6
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 2000A
- Rotate speed governor: Electronic governor
- Excitation system: AREP
- A.V.R. Model: D350
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 4x12V/150AH sealed for life maintenance free battery

- Lockable battery isolator switch
- Powder coated canopy
- Standard container
- 50 °C remote radiator
- Fire extinguisher
- Oil pump on the engine
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Fuel tank with 5 hours running
- Drain points for fuel tank
- Fuel-water separator for fuel tank
- Operation Manual / Specification

## 3 Equipment Specification

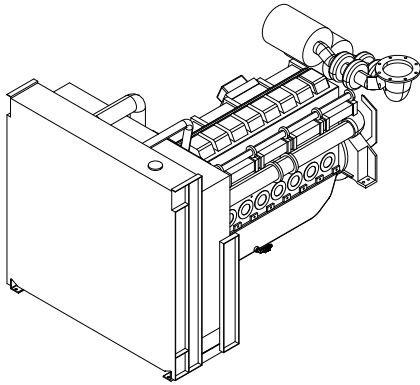
### General technical data



Model.....PL1250PL  
 Structure type ..... C  
 Tank capacity.....1450L  
 Dry weight.....13289kg  
 Noise level @7m .....77.7dBA  
 Dimensions L×W×H.....6058×2438×2591mm  
 Standby Power .....1250kVA/1000kW  
 Prime Power ..... 1125kVA/900kW

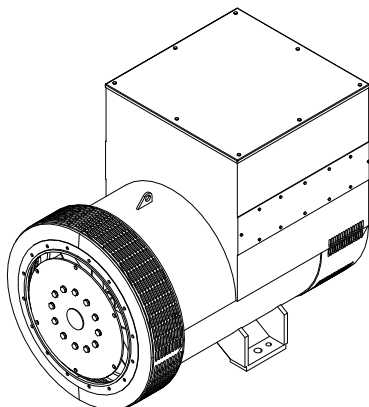
Voltage	380V	400V	415V	440V	
Ampere	1709A	1624A	1565A	1476A	
Genset Fuel Consumption					
Frequency/Load	25%	50%	75%	100%	110%
50Hz (L/h)	N/A	120	188	244	269

## Diesel Engine



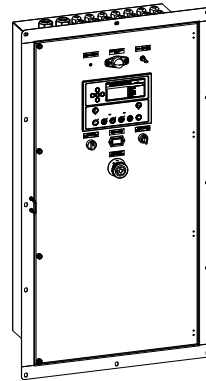
Engine Manufacturer/Brand.....	Perkins
Engine Model.....	4008-30TAG3
Dimensions L×W×H.....	3468×2194×1920mm
Dry Weigh (approx.) .....	4217kg
Number of Cylinders.....	8
Bore.....	160mm
Stroke.....	190mm
Displacement.....	30L
Compression Ratio.....	13.0
Type of Injection .....	Direct injection
Intake System.....	Turbocharged
Intake Resistance.....	≤5.0kPa
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage .....	24V
Type of Fuel.....	BS2869 class A2 or BS EN590
Type of Oil .....	API 15W/40
Oil Capacity .....	153L
Type of Coolant .....	Glycol mixture
Coolant capacity.....	140L
Back Pressure.....	≤7.0kPa
Standby Power .....	1055kW
Prime Power .....	947kW

## Alternator



Alternator Manufacturer/Brand .....	Leroy Somer
Alternator Model .....	LSA50.2M6
Exciter.....	Brushless
Cooling Fan .....	Cast alloy aluminum
Windings.....	100% copper
Insulation Class .....	H
Winding Pitch.....	2/3
Terminals .....	6
Drip Proof .....	IP23
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

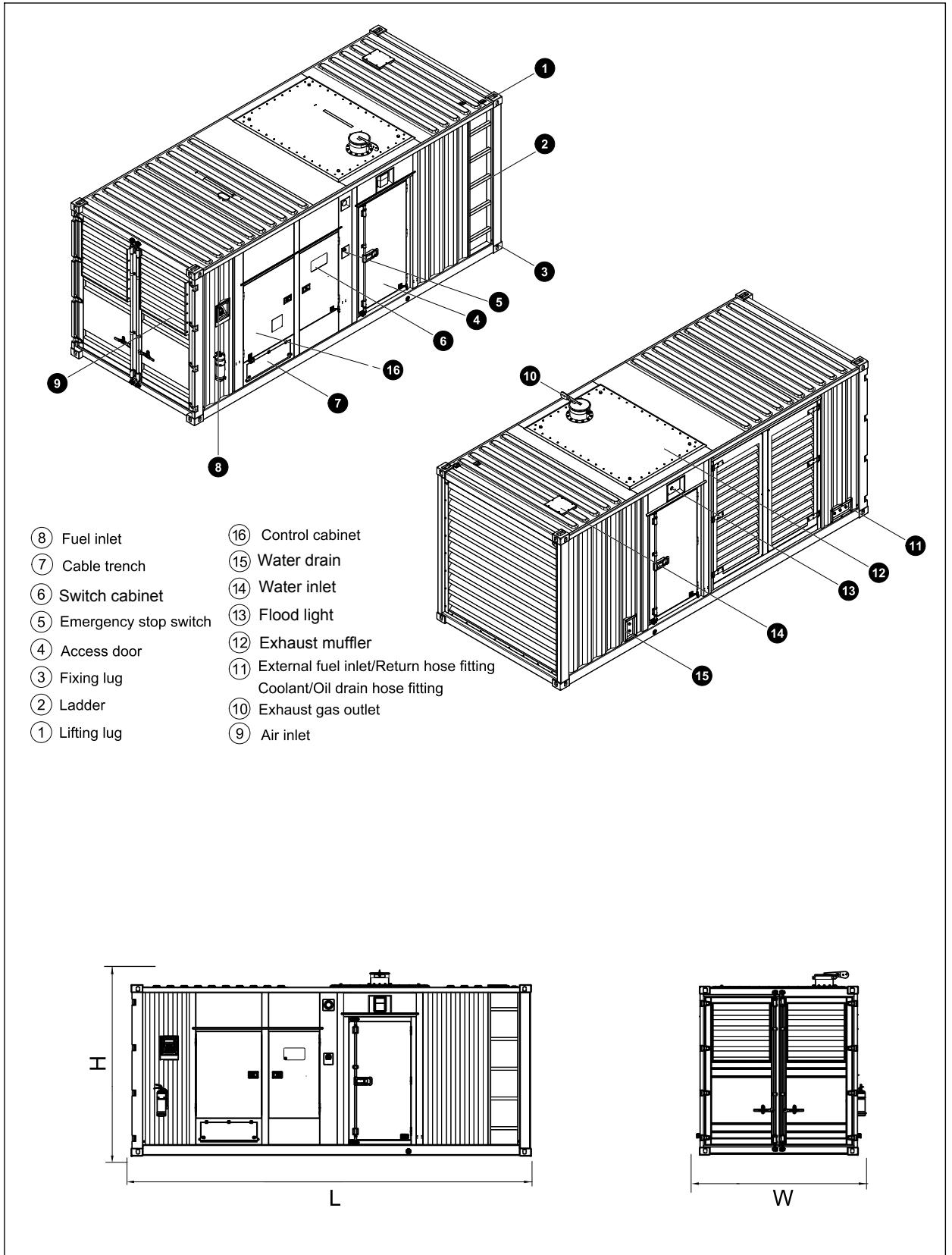
## ComAp MRS16 IL4 Control System



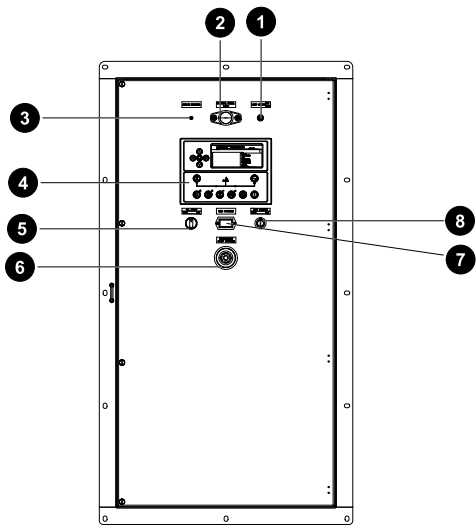
ComAp MRS16 IL4 is an advanced control module based on micro-processor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters 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

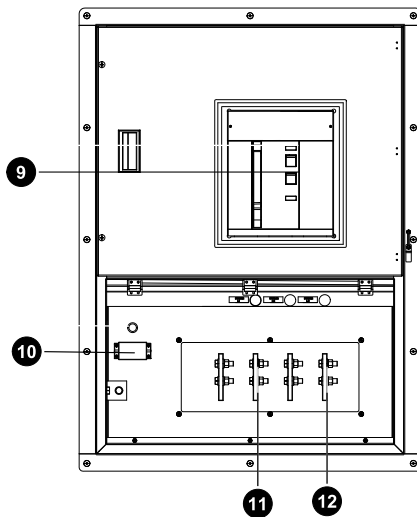
## 4 Overall Dimensions



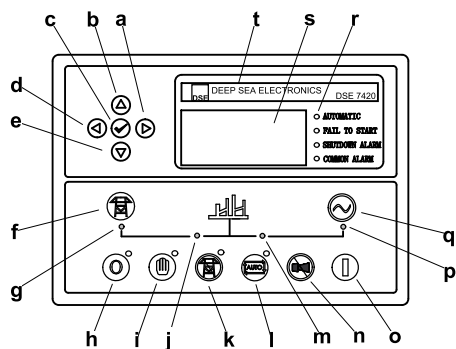
## 5 Control System



Control cabinet



Field wiring cabinet



Control module

Ref.	Description
1	Control cabinet lamp switch
2	Control cabinet lamp
3	Charge indicator
4	Control module
5	Oil pump
6	Emergency stop switch
7	Time counter
8	Key switch
9	Main circuit breaker
10	Mains input/Remote control/ ATS communication connector
11	Neutral wire terminal
12	Live wire terminals

a	Button (next page)
b	Button (increase value / previous item)
c	Button (accept)
d	Button (previous page)
e	Button (decrease value / next item)
f	Button (transfer the load to the mains supply, when in Manual mode only)
g	Mains supply available LED
h	Stop / Reset button
i	Manual button (Manual control mode)
j	Mains supply on load LED
k	Test button (Test mode)
l	Auto button (Auto mode)
m	Genset on load LED
n	Mute/Lamp test button
o	Start button (Manual)
p	Genset available LED
q	Button (transfer the load to the genset, when in Manual mode only)
r	Alarm LED (4 alarm items)
s	LCD display
t	Control module name