

Diesel Genset Specification

PL110PL

General technical data

Model	PL110PL	Rated voltage V	Current A
Structure	PT	380	151.9
Prime power (PRP) : kVA / kW	100 / 80	400	144.3
Standby power (ESP) : kVA / kW	110 / 88	415	139.1
Frequency: Hz	50		
Rotate speed: RPM	1500	Load	Fuel consumption L/h
Phase: P	3	25%	N/A
Power factor: cosφ	0.8	50%	14.1
Protection class	IP54	75%	20.2
Noise level: dB@7m	66.1	100%	26.9
Tank capacity: L	580	110%	29..7

Main Features

Design Standards	Environmental Operating Conditions	Factory Inspection
•Conformite Europeenne (CE) •ISO8528-5:2005 •AS 3000-2018 •AS 3010-2017	•Installation place: outdoor / indoor (well ventilated). •Ambient temperature: -25°C to 45°C (the coolant heater is needed when the temperature is below 5°C) •Humidity: Less than 80% •Altitude: Below one thousand (1000) meters.	•Protection devices working test •Starting ability in normal temperature •50% rated power load moment capacity •Load test :0, 25%, 50%, 75%, 100%, 110%

Power Class Definition

- Prime Power (PRP): the unit runs continuously with variable load, the number of operating hours is not limited, and 1h overload 10% operation is allowed per 12h, and the average load factor is less than 70% per 24h.
- Standby Power (ESP): operating time does not exceed 500h per year, continuous operating time does not exceed 300h, the average load factor is less than 80% per 24h. Overload operation is not allowed.

Product Statement

- The data of specifications is based on the following standard environmental test conditions.
 - Ambient temperature 25°C
 - Altitude 100m
 - Relative humidity 30%

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Power System

Engine

Manufacturer / brand	Perkins	Intake system	Turbocharger
Model	1104C-44TG2	Intake resistance: kPa	≤8.0
Cylinders	4L	Exhaust back pressure: kPa	≤18.0
Bore: mm	105	Oil capacity: L	8.0
Stroke: mm	127	Coolant capacity: L	7.0
Displacement: L	4.4	Battery voltage: V	12/24
Compression ratio	18.23	Dimensions: mm	1259x721x966
Rotate speed: RPM	1500	Dry weight: kg	401
Prime power: kWm	93.6		
Standby power: kWm	103.0		
Rotate speed governor	Mechanical		
Type of fuel Injection	Direct		

Alternator

Manufacturer / brand	Leroy Somer	Insulation class	H
Model	LSA44.3S5	Temperature rising class	H
Exciter	Standard self-excitation, SHUNT	Protection class	IP23
Windings	100% copper	Voltage regulation	±0.5%
Winding pitch	2/3	Telephone harmonic factor THF	<2%
Number of poles	4	Telephone interference factor TIF	<50
Terminals	12		

Control System

Brand	COMAP
Model	MRS16

General Functions

- Automatic start / stop control
- Manual/remote start control
- Real time monitoring and display of multiple parameters
- CAN and Modbus communication
- Provide complete control solutions

Monitoring and protection

Oil pressure	Over load
Water temperature	Over current
Rotate speed	Over voltage
Start	Under voltage
Running time	Over frequency
Battery voltage	Under frequency
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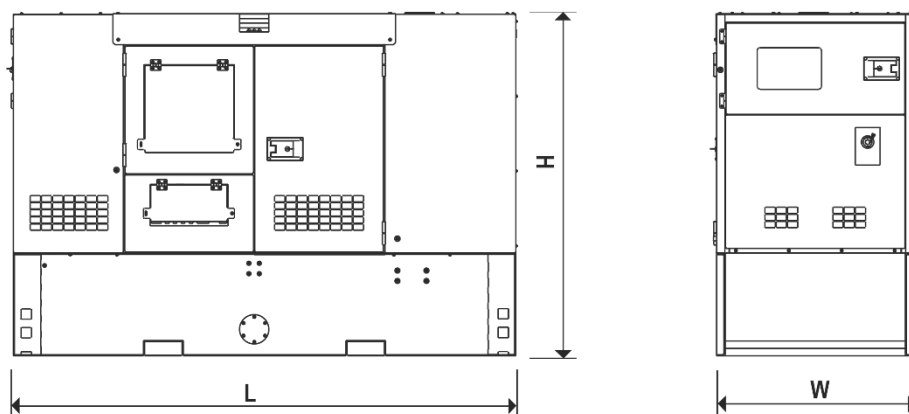
PL110PL

Product Configuration

Engine	Generator	Control switchgear	Canopy (sound-proof)	Base Frame
Electrical start motor	Alternator	PLC control system	SECC Electrogalvanized sheet	Steel base frame
Battery system	H class insulation	Main circuit breaker	Corrosion-resistant coating	Engine bracket
Speed control system	H class temp. rising	Breaker cabinet	Access door	Alternator bracket
Lockable isolator switch	IP23 protection	ATS connector	Stainless steel hinge	Radiator bracket
Battery charger	AVR voltage regulator	Mains floating charger	Sound absorbing cotton	Vibration isolators

Fuel system	Lubrication system	Cooling system	Intake / exhaust system	Service documents
Base frame fuel tank	Oil pressure sensor	Radiator	Air filter	Installation and operation manual
Fuel level sensor	Oil temperature sensor	Water level sensor	Exhaust muffler	Test report
Flexible connection pipe	Oil filter	Water pipe	Exhaust bellow	Wiring diagram
Fuel filter	Manual oil drain pump		Exhaust pipe and flange	Warranty manual
	Oil drain ball valve		High temperature protective sleeve	Engine manual

Weight and Dimension



Dimension: L x W x H (mm)

2420x1130x1705

Dry Weight (kg)

1874

Note: Dimensions, weight and other parameters are for reference only, which shall be subject to the final design drawing.