

Generator set
Sound-proof type
DPX-20006

SPECIFICATIONS



1 Standards & Conditions

Design Standards

The designs and the productions are in conformity with:

- Conformance Europeenne (CE)
- China Compulsory Certification (CCC)
- ISO8528-5:2005
- GB/T2820.5-2009

Environmental Operating Conditions

- Installation place: Outdoors or indoors (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.

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 1104A-44TG2
- Close coupled to a Leroy Somer alternator LSA44.3S3
- Microprocessor control module PLC-920
- Main circuit breaker: 125A
- Rotate speed governor: Mechanical governor
- Excitation System: Self excited , SHUNT
- A.V.R.Model: R250
- Key switch
- Emergency stop switch
- ATS (automatic transfer switch) receptacle
- 1x12V/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 forkslots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 9 hours running
- Drain points for fuel tank
- Operation Manual / Specifications

3 Equipment Specification

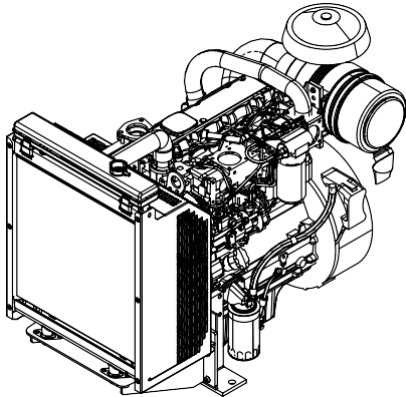
General technical data



Model..... DPX-20006
 Structure type R
 Tank capacity 180L
 Dry weight 1705kg
 Noise level @7m 68.1dBA
 Dimensions LxWxH 2788x1130x1700mm
 Standby Power 83.75kVA/67kW
 Prime Power 80kVA/64kW

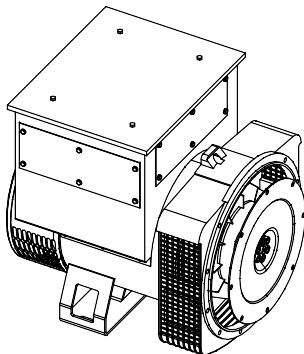
| Voltage | 380V | 400V | 415V | 440V | |
|-------------------------|--------|--------|--------|--------|------|
| Ampere | 121.6A | 115.5A | 111.3A | 104.9A | |
| Genset Fuel Consumption | | | | | |
| Frequency/Load | 25% | 50% | 75% | 100% | 110% |
| 50Hz (L/h) | 5.2 | 9.7 | 14.0 | 18.7 | 20.5 |

Diesel Engine



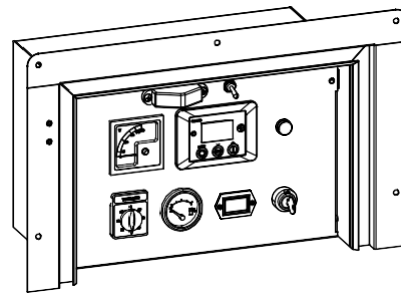
| | |
|----------------------------------|------------------------------------|
| Engine Manufacturer/Brand | Perkins |
| Engine Model..... | 1104A-44TG2 |
| Dimensions LxWxH..... | 1241x629x951mm |
| Dry Weigh (approx.)..... | 463kg |
| Number of Cylinders | 4 |
| Bore | 105mm |
| Stroke..... | 127mm |
| Displacement..... | 4.4L |
| Compression Ratio..... | 17.25 |
| Type of Injection | Direct |
| Intake System..... | Turbocharged |
| Intake Resistance | ≤ 8.0kPa |
| Cooling System | Water cooled |
| Fan..... | Pusher |
| Battery Voltage..... | V |
| Type of Fuel..... | Part 2 1998 Class A2 or DIN EN 590 |
| Type of Oil | API-CG4/ CH4 |
| Oil Capacity..... | 8.0L |
| Type of Coolant | Glycol mixture |
| Coolant Capacity..... | 13L |
| Back Pressure | ≤ 10kPa |
| Standby Powe | 80.7kW |
| Prime Power..... | 73.4kW |
| Fuel Consumption(100%load) | 18.7L/h |

Alternator



| | |
|--|-------------------------------|
| Alternator Manufacturer/Brand..... | Leroy Somer |
| Alternator Model | LSA44.3S3 |
| Exciter..... | Brushless |
| Cooling Fan..... | Cast alloy aluminum |
| Windings | 100% copper |
| Insulation Class..... | H |
| Winding Pitch..... | 2/3 |
| Terminals | 12 |
| Drip Proof..... | P23 |
| Altitude..... | ≤1000m |
| Overspeed | 2250rpm |
| Air Flow..... | 0.27m³/s(50Hz),0.32m³/s(60Hz) |
| Voltage Regulation | ±0.5% |
| Total harmonic TGH / THC at no load < 2 % - on load < 2% | |
| Telephone Interference | THF<2%;TIF<50 |

PLC-920 Control System

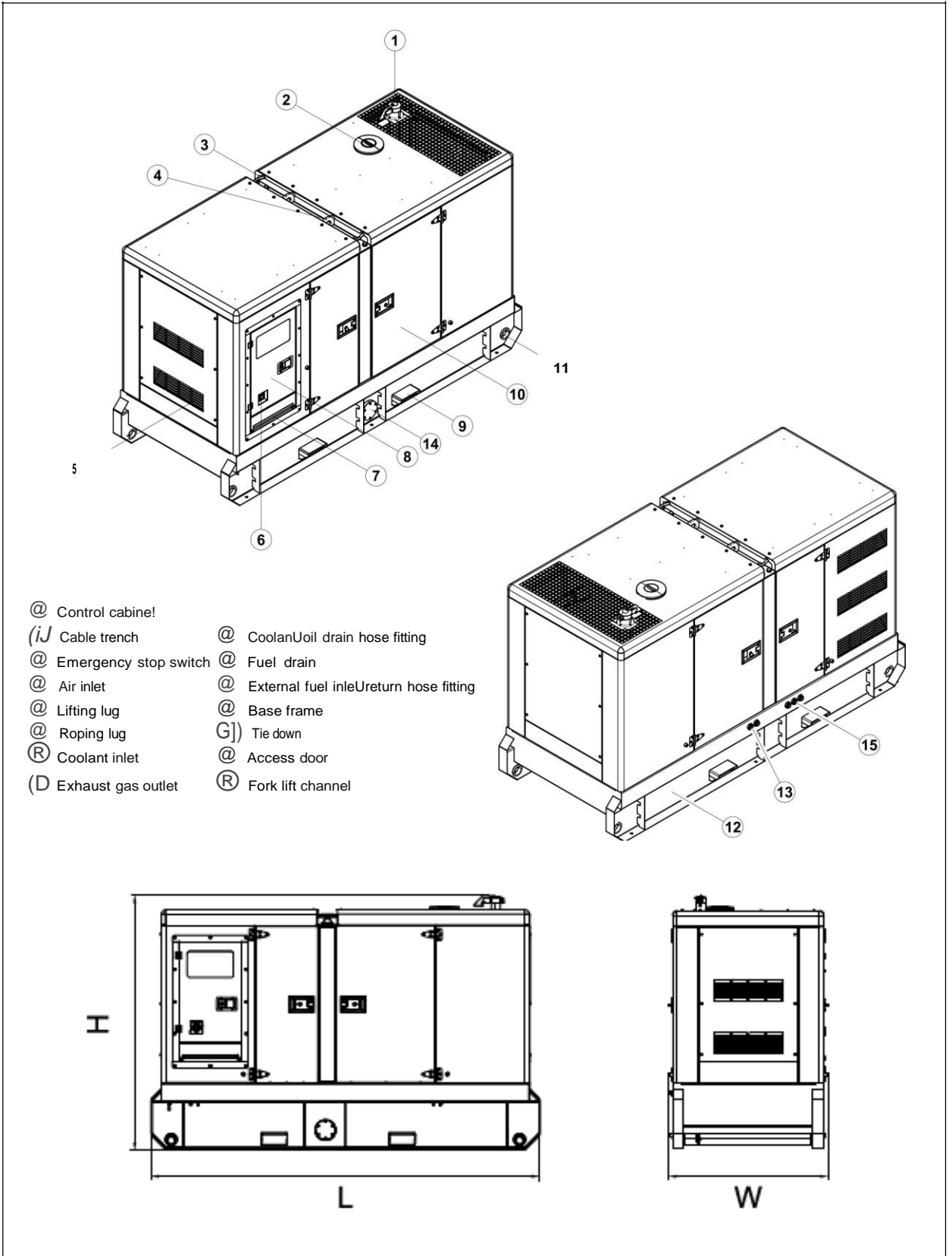


PLC-920 is an advanced control module based on micro-processor designed to control the engine via a key switch and push buttons on the front panel. The module is used to start and stop the engine and indicate fault conditions, automatically shutting down the engine and giving a true first up fault condition of an engine failure.

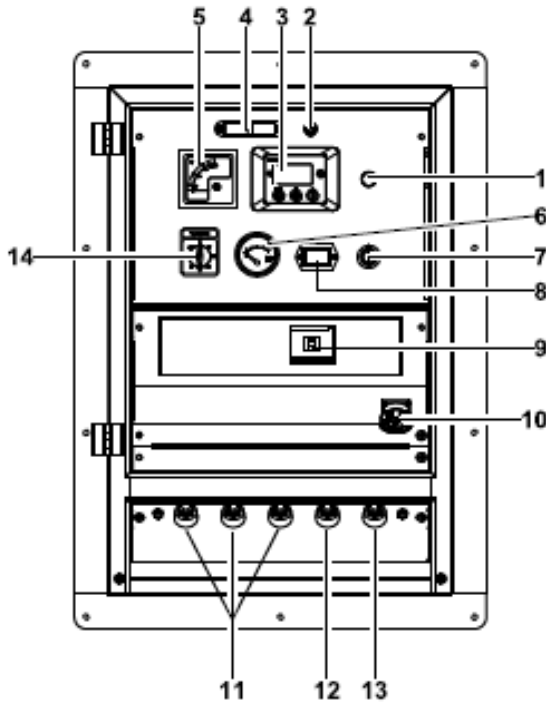
Standard Control Function

- Manual Engine Control Module
- Low Oil Pressure
- High Engine Temperature
- Auxiliary Shutdown
- Overspeed Protection
- Protection hold-off timer
- Charge Failure warning

4 Overall Dimensions

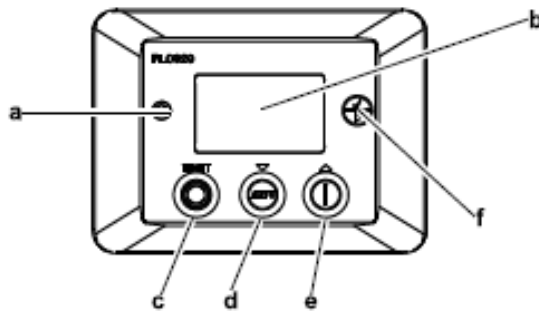


5 Control System



| Ref. | Description |
|------|--|
| 1 | Charge indicator |
| 2 | Control cabinet lamp switch |
| 3 | Control module |
| 4 | Control cabinet lamp |
| 5 | Voltage meter |
| 6 | Fuel level meter |
| 7 | Key switch |
| 8 | Time counter |
| 9 | Main circuit breaker |
| 10 | Mains input /ATS /Remote communication connector |
| 11 | Live wire terminal |
| 12 | Neutral wire terminal |
| 13 | Ground wire terminal |
| 14 | Voltmeter change-over switch |

Control & field wiring cabinet



Control module

| Ref. | Description |
|------|--|
| a | Alarm indicator |
| b | Main status display |
| c | Stop/reset button; Next page (Configuration mode only) |
| d | Auto start button; Decrease value/next item (Configuration mode only) |
| e | Start button; Increase value/next item (Configuration mode only) |
| f | Navigation button; Accept (Configuration mode only) |

Specification may change without prior notice.