

# DL 10

| <b>POWER RATING</b> | <b>1500 rpm/50 Hz</b> | <b>1800 rpm/60 Hz</b> |
|---------------------|-----------------------|-----------------------|
| <i>Prime</i>        | 10.4 kVA, 8.3 kW      | 12.9 kVA, 10.3 kW     |
| <i>Standby</i>      | 11.3 kVA, 9 kW        | 14.4 kVA, 11.5 kW     |

Generator set consisting of engine and alternator mounted on fabricated steel profile baseframe, painted with phosphate primer and top coat.

The alternator is coupled directly to the engine to SAE standards. The rotor is fixed to the flywheel using steel discs for flexibility. This structure assures perfect alignment and the absence of vibrations.

The unit is fixed to the baseframe using antivibration dampeners.

## ENGINE

4 stroke diesel with direct injection.

|                                              |                          |
|----------------------------------------------|--------------------------|
| Manufacturer .....                           | Lombardini               |
| Model.....                                   | 9 LD 625.2 L             |
| N° of cylinders.....                         | 2                        |
| Engine capacity .....                        | 1248 cc                  |
| Bore .....                                   | 95 mm                    |
| Stroke .....                                 | 88 mm                    |
| Compression ratio .....                      | 17.5:1                   |
| Air intake.....                              | Atmospheric              |
| Engine speed 50 / 60 Hz .....                | 1500 / 1800 rpm          |
| Prime power 50 / 60 Hz .....                 | 14 / 18.4 HP DIN Nb 6271 |
| Fuel consumption 100% load 50 / 60 Hz.....   | 3 / 3.7 ltr/h            |
| Fuel tank capacity.....                      | 10 litres                |
| Approximate running time without refill..... | 3.3 / 2.7 hours          |
| Noise level .....                            | 76 dB(A) at 7 metres     |

## Cooling system

Cooled by air forcing fan on flywheel.

|                                      |                      |
|--------------------------------------|----------------------|
| Cooling air flow 1500/1800 rpm ..... | 13.15 / 15.78 m3/min |
|--------------------------------------|----------------------|

## Lubrication system

Forced lubrication via gear pump. Oil filter.

|                         |            |
|-------------------------|------------|
| Oil sump capacity ..... | 2.8 litres |
| Consumption .....       | 0.058 kg/h |

## Air intake system

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***... WHERE THE POWER COMES FROM ...***

Natural intake via dry air filter, with changeable cartridge.

Aspirated air flow 1500/1800 rpm..... 0.935 / 1.122 m3/min

#### **Injection system**

Injection pump submerged in block with centrifugal regulator. Fuel filter

#### **Electric system**

12 V electric starting system. Axial starter motor. 70 A.h. battery. Battery charging alternator. Oil pressure gauge.

#### **Protection system**

Visual alarm if oil pressure too low. Optionally, alarm system with automatic engine shutdown if oil pressure too low.

#### **Exhaust system**

Exhaust silencer with 10 db(A) noise reduction.

#### **ALTERNATOR**

Three phase and brushless. Electronic regulation on all three phases. Class "H" insulation. All windings are impregnated with polyester resin, making them resistant to acids and oil. IP 23 protection. Electrical characteristics to IEC.34.1, CEI 2-3, VDE 0530 and BS 4999 - 5000. Radio interference suppression to grade G of VDE 0875.

|                                      |                       |
|--------------------------------------|-----------------------|
| Manufacturer .....                   | Mecc Alte             |
| Model.....                           | CT 3- LA/4            |
| Power rating 1500 / 1800 rpm .....   | 11 kVA / 13.2 kVA     |
| Voltage(*).....                      | 380/220 V three phase |
| Frequency.....                       | 50 / 60 Hz            |
| Speed .....                          | 1500 / 1800 rpm       |
| Regulation.....                      | Electronic            |
| Nominal current 1500 / 1800 rpm..... | 16.7 A / 20 A         |

(\*) Other voltages: PLEASE CONSULT.

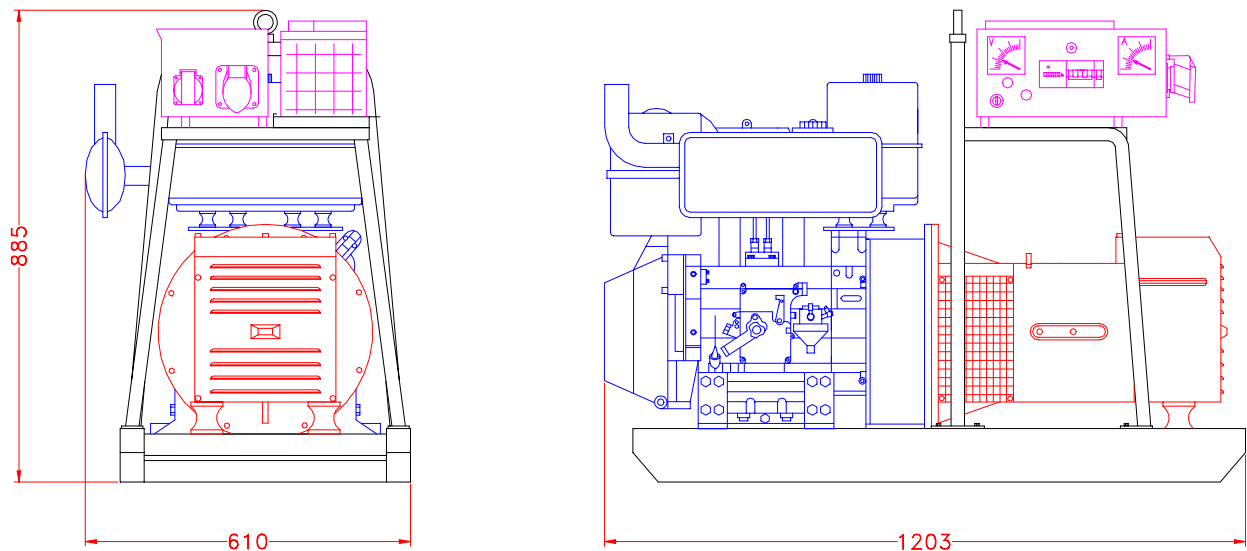
#### **VERSIONS**

The DL 10 may be supplied in the following versions:

**STATIONARY, MOBILE WITHOUT CANOPY, MOBILE WITH CANOPY AND AUTOMATIC.**

## **STATIONARY**

In the STATIONARY version, the generator set is supplied on a skid base with a control panel featuring an ignition key for manual start-up.



### *Control panel*

Metal cabinet mounted on chassis using anti-vibration dampeners.

Equipped with:

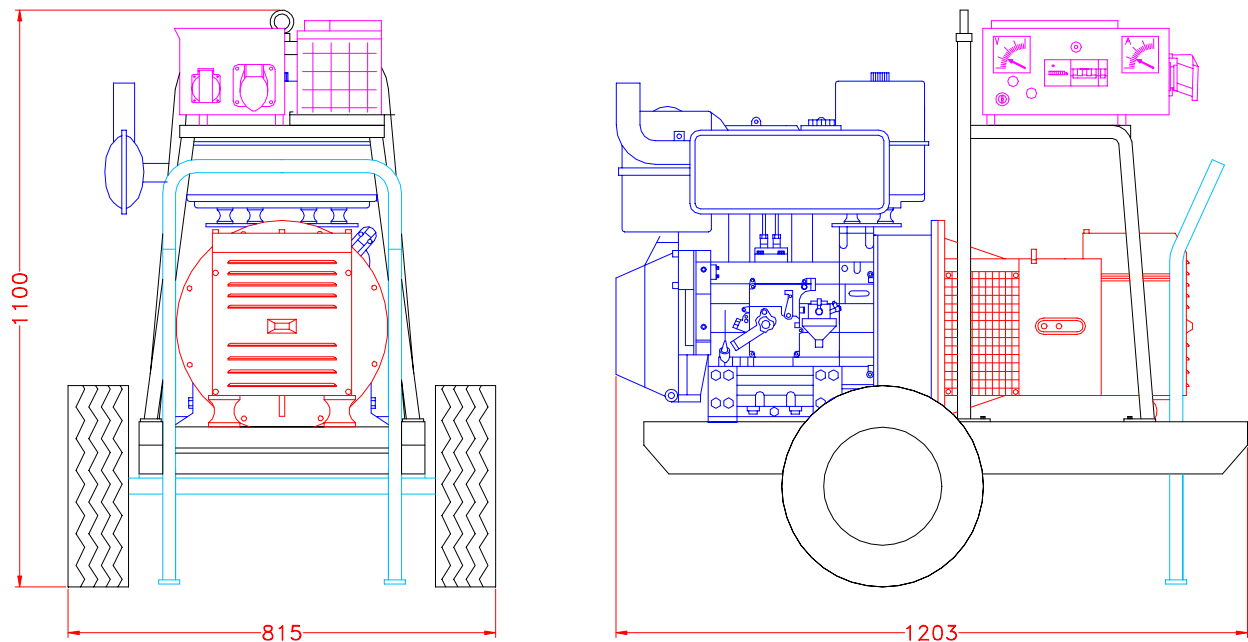
- Thermo - magnetic circuit breaker
- 1 Ammeter .
- Voltmeter
- Hours run meter.
- Three phase output socket
- Single phase socket
- On light.
- Battery charge indicator lamp
- Oil pressure indicator lamp
- Ignition key

Shutdown using manual choke.

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## MOBILE WITHOUT CANOPY

In this version, the set is supplied on a base frame with axle, wheels and handle. The control panel is mounted on the frame with anti-vibration dampeners.



### *Control panel*

Equipped with:

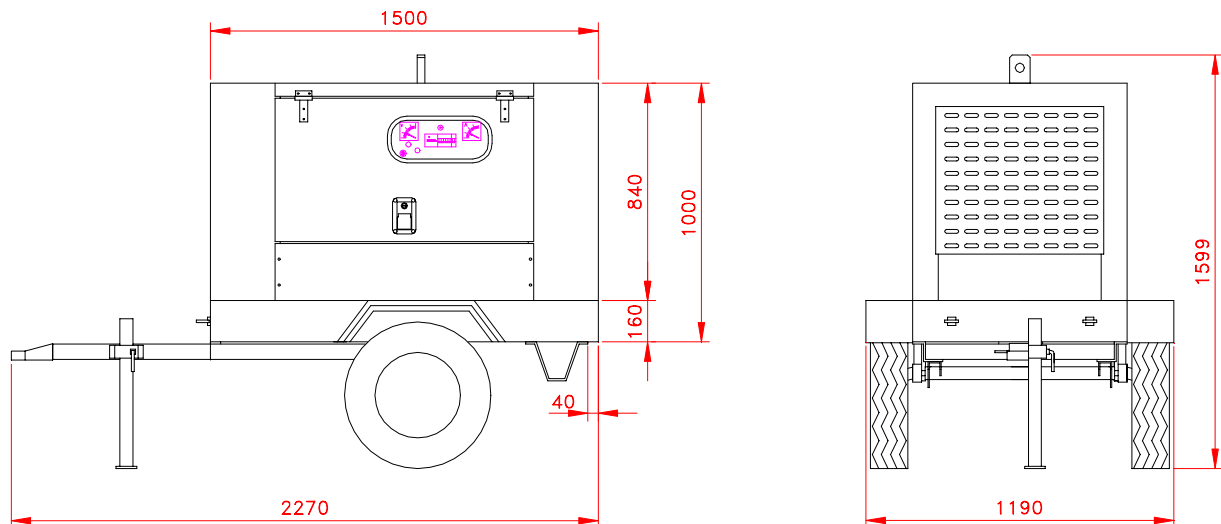
- Thermo - magnetic circuit breaker
- 1 Ammeter .
- Voltmeter
- Hours run meter.
- Three phase socket
- Single phase socket
- On light
- Battery charge lamp
- Oil pressure lamp
- Ignition key

Shutdown using manual choke.

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## MOBILE WITH CANOPY

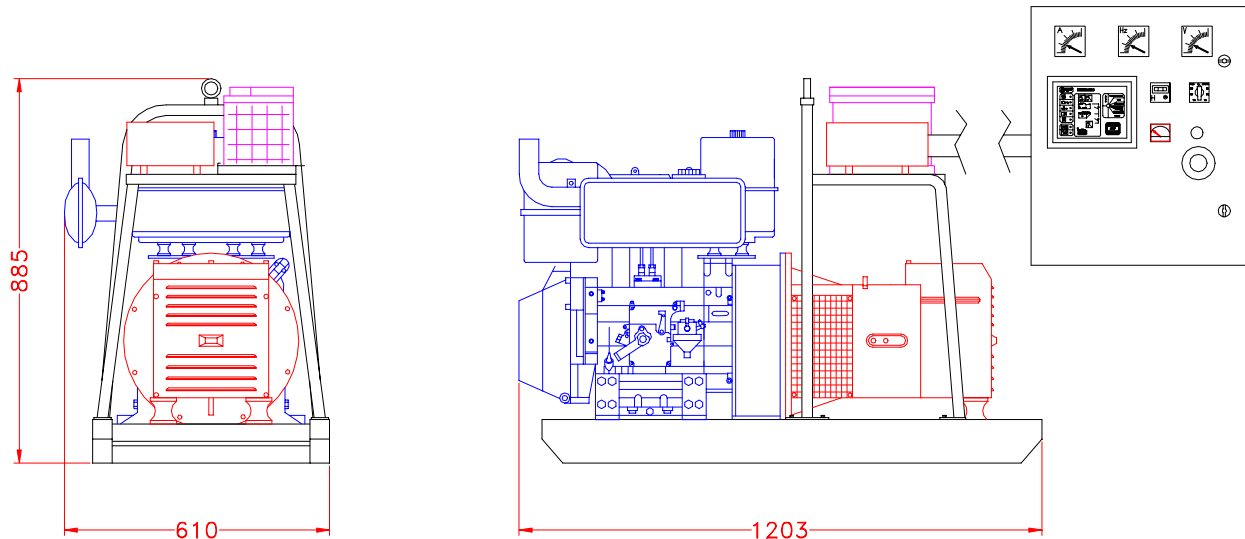
Set on baseplate mounted on independent trailer. Incorporates metal canopy housing the control panel and is started manually using an ignition key.



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## AUTOMATIC

The automatic version of this generator set is supplied on a skid base with an automatic start-stop panel for mains failure.



## ELECTRIC PANEL

Enclosed in metal cabinet with IP 54 protection and supplied loose for wall mounting. Includes monitoring and control system, measuring and handling apparatus and transfer system.

### Monitoring and control system

- Automatically monitors the mains, and, if the mains fails (in one or all three phases) connects the consumers to the generator set via mechanically and electrically activated contactors. When the mains is restored, the load is reconnected to the mains, the set idles and then stops.
- No. of start-up attempts: 3
- Selector switch for Off, Automatic Mode, Manual Mode and Test.
- The generator set may be selected to run manually or automatically. In manual mode starting, stopping and load transfer are performed via a selector switch.
- Three phase voltage monitor with adjustable values.

### Measuring equipment

Consists of the following items:

- 1 Ammeter
- 1 Voltmeter
- 1 mains-generator set voltmeter selector switch
- 1 Frequency meter
- 1 Battery voltmeter.
- Off button.
- Battery maintaining system.
- Battery indicator lamp.
- Battery charge indicator lamp.
- Large emergency stop pushbutton.

- Audible and visual signal for low fuel level. (Shown as "ALARMS NO STOP").
- Alarm system ordering generator set to disconnect and stop, with audible and visual signal for:
  - Start-up failure
  - Low oil pressure
  - High water/engine temperature
  - Overload
- Protection fuse.
- Thermo-magnetic circuit breaker.

Transfer system

Made up of two electrically and mechanically activated contactors.

WORKING VOLTAGE: 380 / 220 V