

**AL 1650-CA - LOMBARDINI 12LD-477 DIESEL 3600 rpm | 60 Hz**

**TRIPHASE  
220/127 V**

## TECHNICALS SPECIFICATIONS



Image for guidance purposes.

Model:

# AL 1650

Gen set composed of engine and alternator perfectly assembled and fitted in a practical tubular chasis, that is adding great strenght and versatility.

**STANDBY POWER:**  
(LTP "Limited Time Power" norma ISO 8528-1) **16,5 kVA**

### Genset general characteristics

Standby power LTP (kVA)	16,5
Frequency (Hz)	60
R.p.m.	3600
Voltage (V)	220 / 127
(Cos $\phi$ )	1

## ENGINE CHARACTERISTICS

MAKE	MODEL		
<b>LOMBARDINI</b>	<b>12LD-477</b>		
Mechanical effect power (kWm)	15,7	Start	Automatic main failed
No. cylinders	2	Fuel	Diesel
Displacement (cm <sup>3</sup> )	954	Fuel tank capacity (L)	15
Diameter x stroke (mm)	90x75	Fuel consumption 100% (L/h)	5
Compression ratio	19:1	Oil tank capacity (L)	3
Cooling system	Air	Oil consumption (kg/h)	0,011
Series regulator	Mechanical	Battery V/Ah	12/19

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## ALTERNATOR CHARACTERISTICS

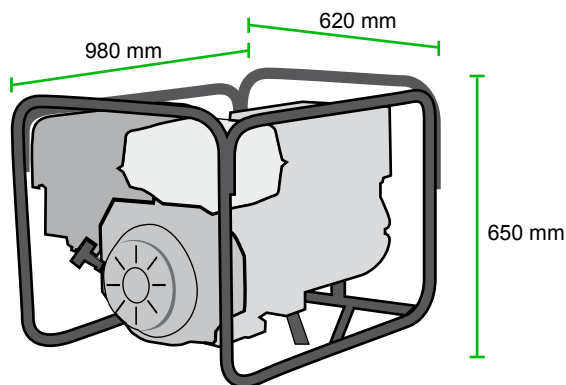
Voltage (V)	220 / 127
Frequency (Hz)	60
R.p.m.	3600
No. poles	2
Protection degree IP	21
Insulation	H

## SOCKETS DESCRIPTION:

Depending on the market demand (optional)

## DIMENSIONS AND WEIGHT

Lenght (mm)	980
Width (mm)	620
Height (mm)	650
Weight (kg)	150



## OPTIONAL

TRANSPORT KIT

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## DSE 6020 AUTOMATIC CONTROL PANEL WITH LOAD TRANSFER SWITCH PANEL

PROTECTION, DISTRIBUTION AND AUTOMATIC CONTROL panel which starts the generator set when it detects a mains failure and stops it when the mains is restored with the control unit DSE 6020. It also starts and stops the group manually via a pushbutton or remote start-up by contact.



Images for guidance purposes.

It has the following:

**1** EMERGENCY STOP PUSHBUTTON

**2** PROTECTIONS

- Protection fuses for control module.

**3** BATTERY CHARGER

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- 4 DSE 6020 PROTECCION CONTROL MODULE.** It has a digital LCD screen, which provides easy reading of the information regarding the **ENGINE, ALTERNATOR, MAINS and CHARGING.**

**READINGS that can be made:**

**ENGINE:**

- Cooling temperature
- Oil pressure
- Turning speed (rpm)
- Fuel level
- Battery voltage
- Battery alternator voltage
- Operating hours
- Number of start-ups

**ALTERNATOR AND CHARGE:**

- Voltages between phases and between phases and neutral.
- Intensities
- Frequency

**MAINS:**

- Frequency
- Voltages between phases and between phases and neutral (L1-N, L2-N, L3-N).
- Voltages between phases (L1-L2, L2-L3, L1-L3)

**CONTROL of the set:**

- STARTS and STOPS the set when mains failure is detected and when it is restored, respectively
- It can also operate MANUALLY or REMOTELY via contact

**Protection of the engine and alternator, with the ALARMS activated:**

**ENGINE:**

- Low oil pressure
- High coolant temperature
- Low and High battery Voltage.
- Failure of the alternator to charge batteries
- Low fuel level.

**ALTERNATOR:**

- Low and High Voltage
- Low and High Frequency
- Overload due to Intensity (A)

**MAINS:**

- Low and High Voltage
- Low and High Frequency

**OTHER CHARACTERISTICS:**

- The real-time clock records the last 5 events.
- Configurable inputs and outputs.
- Configurable alarms and timers.
- USB connectivity
- Fully configurable via software and PC.
- Communication via USB cable for remote control
- Programmer Clock which starts and stops the set on a weekly basis for maintenance, etc..
- ALTERNATIVE CONFIGURATIONS, which open up the working possibilities

**5** DISTRIBUTION :

- Direct output of the magnetothermal switch.

**6** ▪ 4 POLES SWITCH BOARD.