

Industrial GenSet

Series L6-Tf

POWER RATING	3000 rpm/50 Hz
Prime	5.6kVA, 4.5kW
Standby	6.4kVA, 5.1kW

Generator set consisting of engine and alternator mounted on a tubular steel profile frame, using anti-vibration pads. Alternator coupled directly to the engine crankshaft via a conical coupling system to obtain a rigid union.

ENGINE

Typ 4-stroke diesel engine
 with direct injection.
 Manufacturer Lombardini
 Model 6 LD 435
 No. of cylinders 1
 Engine capacity 436 cc
 Bore 86 mm
 Stroke 75 mm
 Compression ratio 18:1
 Aspiration Atmospheric
 Engine speed 3000 rpm
 Prime power 8.7 HP DIN Nb 6271
 Fuel consumption 100% load 1.9 ltr/h
 Fuel tank capacity 4.3 litres
 Approximate running time w/o 2.2 hours
 Noise level 79.2 dB (A) at 7metres

Cooling system

Cooled by air forcing fan on flywheel.
 Cooling air flow 5.17 m3/min

Lubrication system

Forced lubrication via gear type pump. Oil filter.
 Oil sump capacity 1.2 litres
 Consumption 0.013 kg/h

Air intake system

Naturally aspirated via oil soaked air filter.
 Combustion air flow 0.55 m3/min

Injection system

Injection pump submerged in block with centrifugal governor. Fuel filter

Electric system

12V electric starting system. Axial starter motor. 46Ah battery. Battery charging alternator. Oil sensor.

Protection system

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

Exhaust system equipped with exhaust silencer.

ALTERNATOR

Three phase, self-regulating and self-exciting. Self ventilating. Class "H" insulation. All windings are impregnated in epoxy resin varnish, making them resistant to acids and oil. Voltage is maintained within +/- 6%. Manufactured to CEI 2-3, IEC 34.1, VDE 0530, BS 4999-5000 and NF 51100.

Manufacturer Mecc Alte
 Model TR1 - 160/2
 Power rating 6.5 kVA
 Voltage(*) 220/380 V Three phase
 Frequency 50 Hz
 Speed 3000 rpm
 Regulation Compound
 Nominal current 10 A
 (*) Other voltages: PLEASE CONSULT.

VERSIONS

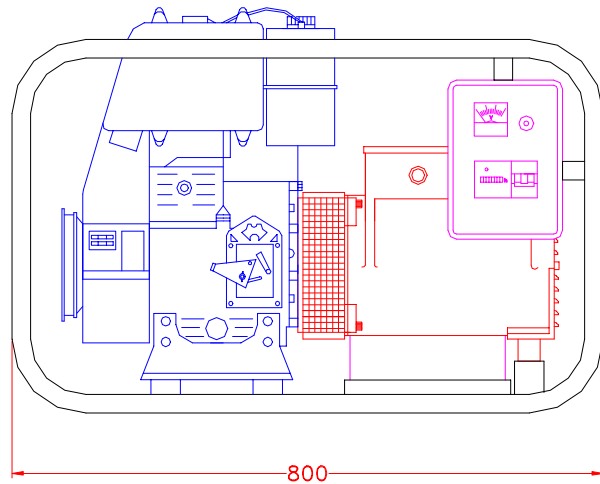
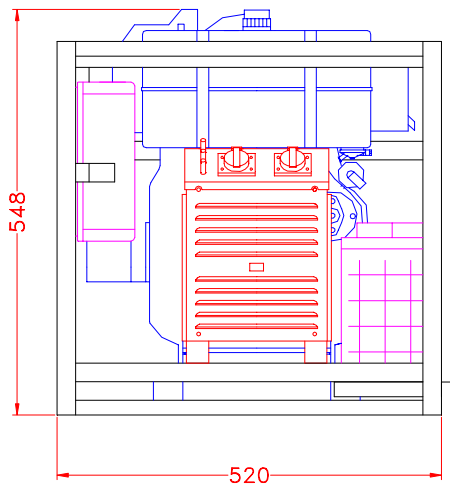
The **L 6 Tf** may be supplied in the following versions:

STATIONARY, MOBILE WITHOUT CANOPY AND AUTOMATIC.

INDUSTRIAL GENSET

L6 Tf

Mounted on tubular frame with anti-vibration pads. Dim.: 800x520x548mm BxTxH, approx. 85kg.



Control panel

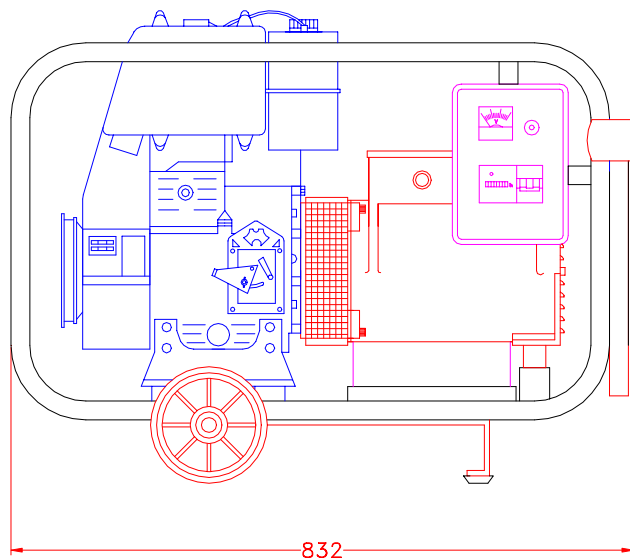
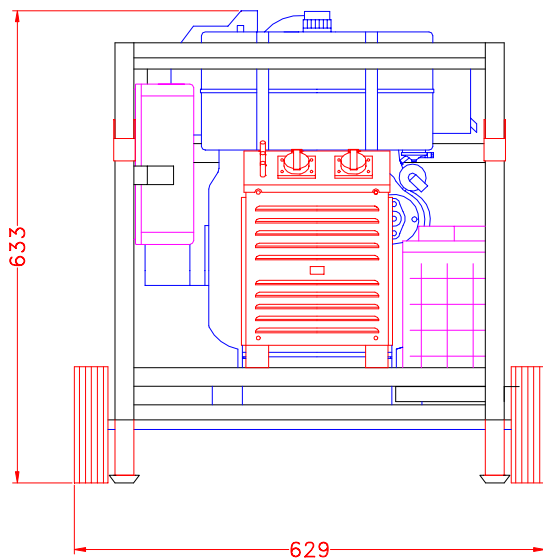
- Thermo-magnetic circuit breaker.
- Voltmeter.
- Hours run meter.
- On light
- Oil pressure indicator lamp.
- Ignition key.
- 1 three phase and 1 single phase socket (mounted on alternator cover).

Includes battery. Shutdown using manual choke.

MOBILE VERSION

L6 Tf-M

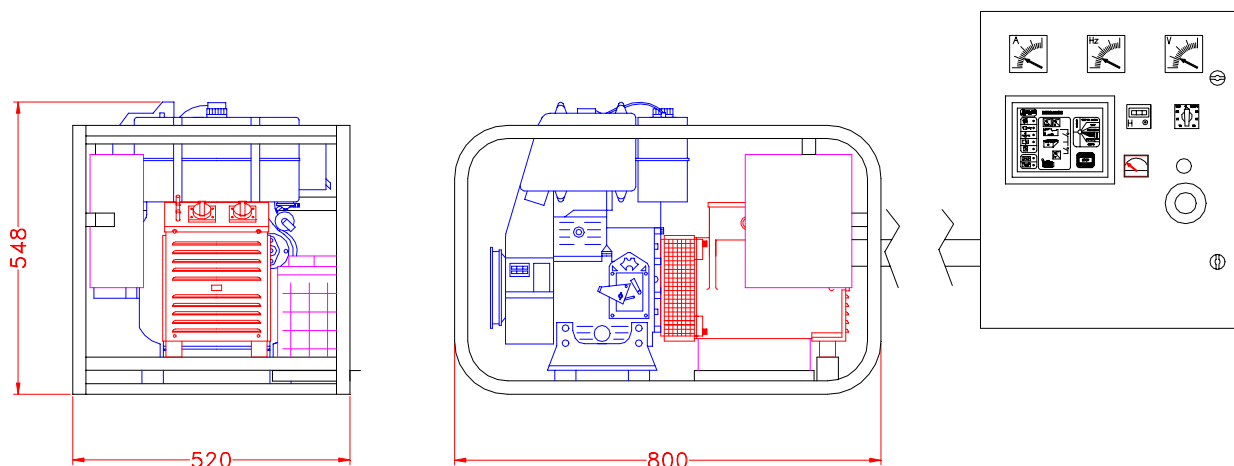
In this version, the set is supplied on a tubular frame with wheels and handles.



AUTOMATIC VERSION

L6 Tf-N

On tubular frame with automatic panel for start-up on mains failure.



ELECTRICAL PANEL

Mounted in metal cabinet with IP 54 protection and supplied loose for wall mounting. Includes monitoring and control, measuring and handling and changeover systems.

Monitoring and control system

- Automatically monitors the mains, and if the mains fails connects the consumers to the generator set via contactors which are mechanically and electronically activated. 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 Disconnect, Automatic Service, Manual Service and Test.
- The generator set may be set to run manually or automatically. When running manually, start-up, shutdown and changeover are performed using a selector switch.
- Three phase voltage monitor with adjustable values.

Measuring and handling 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 maintenance system.
- Battery indicator light.
- Battery charge light.
- Large emergency stop push button.
- Audible and visual alarm for low fuel level. (Shown as "ALARMS NO STOP").
- Alarm system disconnecting generator, shutdown, audible alarm and visual signal for:
 - Start-up failure
 - Low oil pressure
 - High water/engine body temperature
 - Overload
 - Protection fuse
 - Thermo-magnetic circuit breaker.

Transfer system

Made up of two mechanically and electrically interlocking contactors. WORKING VOLTAGE: 380/220 V