

Industrial Generator

PS-LW25

POWER RATING	3000 rpm/50 Hz
Prime	23.9kVA, 19.1kW
Standby	26.5kVA, 21.2kW

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 flywheel housing, to SAE standards. The rotor is fixed to the flywheel using steel discs for flexibility. Perfect alignment and the absence of vibrations are thus guaranteed.

The unit is fixed to the baseframe using anti-vibration dampeners.

ENGINE

Type.....4-stroke diesel with cylinders in line

Technical Data

Manufacturer.....Lombardini
Model.....LDW 1503
No. of cylinders.....3
Engine capacity.....1551 ccm
Bore.....88 mm
Stroke.....85 mm
Compression ratio.....22:1
Aspiration.....Atmospheric
Engine speed.....3000 rpm
Prime power.....34 HP DIN Nb 6271
Fuel consumption 100% load 3000 rpm ..8.1 ltr/h
Fuel tank capacity.....25 litres
Approximate running time without refill 3.1 hours
Noise level.....77.4 dB (A) at 7 metres

Cooling system

Liquid cooled with axial fan.

Cooling air flow 3000 rpm 96 m³/min

Water pump flow rate 3000 rpm 70 l./min.

Lubrication system

Forced lubrication via rotating pump. External oil filter.

Oil sump capacity 3.8 litres

Consumption..... 0.024 kg/h

Injection system

Indirect injection. Fuel filter.

Electric system

12 V electric starting system. Axial starter motor. 70 Ah battery. Battery charging alternator. Oil pressure and engine temperature sensors.

Protection system

Automatic engine shutdown for low oil pressure, high temperature, low fuel level and battery charge defect.

Exhaust system

Manifold silencer.

ALTERNATOR

Three phase and brushless. Electronic regulation on all three phases. Class H insulated. Windings are impregnated with polyester resin making them resistant to acids and oil. IP23 protection. Manufactured to standards CEI 2-3, IEC 34.1, VDE 0530, BS 4999-5000 and NF 51100. Radio interference suppression to grade G of VDE 0875.

Manufacturer..... Mecc Alte

Model..... ECS 28 LC

Power rating..... 27 kVA

Voltage(*)..... 230/400 V three phase

Frequency..... 50/60 Hz

Speed 3000 rpm

Regulation..... Electronic

Nominal current 39 A

(*) Other voltages: PLEASE CONSULT.

VERSIONS

The ***LW 25*** may be supplied in the following versions:

- ***STATIONARY***
- ***STATIONARY WITH CANOPY***
- ***MOBILE WITH CANOPY***
- ***AUTOMATIC***

STATIONARY Version

PS-LW25

In the STATIONARY version, the generator set is supplied on a skidbase with a control panel operated manually using an ignition key.

Dimensions: Length: 1500 mm, Width: 830 mm, Height: 1150 mm
Weight: 550 kg

CONTROL PANEL

In metal cabinet, with IP 54 protection, mounted on frame with anti-vibration dampeners.

Equipped with:

- Thermo-magnetic circuit breaker.
- 3 ammeters
- Frequency meter
- Voltmeter with selector switch
- Hours run meter.
- Three phase output terminals.
- Engine temperature gauge.
- Fuel gauge.
- On light
- Heater button

Control card featuring: ignition key, start-stop pushbuttons and indicator lights for low oil pressure, battery charge, high temperature and low fuel level.

STATIONARY Version WITH CANOPY

PS-LW25-C

In this version, the generator set is supplied on a skidbase with a metal canopy for outdoor use.

The control panel is set in the canopy and is operated using an ignition key.

Dimensions: Length: 1500 mm, Width: 830 mm, Height: 1150 mm
Weight: 600 kg

Metal canopy

Ideal for outdoor use, it is painted with a phosphate primer and a long lasting top coat.

CONTROL PANEL

In metal cabinet, with IP 54 protection, mounted on frame with anti-vibration dampeners.

Equipped with:

- Thermo-magnetic circuit breaker.
- 3 ammeters
- Frequency meter
- Voltmeter with selector switch
- Hours run meter.
- Three phase output terminals.
- Engine temperature gauge.
- Fuel gauge.
- On light
- Heater button

Control card featuring: ignition key, start-stop pushbuttons and indicator lights for low oil pressure, battery charge, high temperature and low fuel level.

MOBILE WITH CANOPY

PS-LW25-MC

Set on baseframe mounted on independent trailer. Incorporates metal canopy housing the control panel which is operated manually using an ignition key.

Length: 2255 mm

Width: 1270 mm

Height: 1607 mm

Weight: 530 kg

Metal canopy

Ideal for outdoor use, it is painted with a phosphate primer and a long lasting top coat.

TRAILER

Made up of: wheels with tyres, DIN towing eye, rubber axle suspension, and stabiliser leg. Jockey wheel on request.

Control panel

In metal cabinet, with IP 54 protection, mounted on frame with anti-vibration dampeners.

Equipped with:

- Thermo-magnetic circuit breaker.
- 3 ammeters
- Frequency meter
- Voltmeter with selector switch
- Hours run meter.
- Three phase output terminals.
- Engine temperature gauge.
- Fuel gauge.
- On light
- Heater button

Control card featuring: ignition key, start-stop pushbuttons and indicator lights for low oil pressure, battery charge, high temperature and low fuel level.

AUTOMATIC Version

PS-LW25-N

The automatic version generator set is supplied on a skidbase with an automatic start / stop panel for mains failure.

Length: 1500 mm

Width: 830 mm

Height: 1150 mm

Weight: 450 kg

CONTROL 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:

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| • 3 Ammeter | • Audible and visual alarm for low fuel level. |
| • 1 Voltmeter | (Shown as "ALARMS NO STOP"). |
| • 1 Mains-generator set voltmeter selector switch. | • Alarm system disconnecting generator, shutdown, audible alarm and visual signal for: |
| • 1 Frequency meter | • Start-up failure |
| • 1 Battery voltmeter. | • Low oil pressure |
| • Off button. | • High water/engine body temperature |
| • Battery maintenance system. | • Overload |
| • Battery indicator light. | • Protection fuse |
| • Battery charge light. | • Thermo-magnetic circuit breaker. |
| • Large emergency stop push button. | |

TRANSFER SYSTEM

Made up of two mechanically and electrically interlocking contactors.

WORKING VOLTAGE: 400/230 V