

Industrial Generator

PS-LW30

POWER RATING	3000 rpm/50 Hz
Prime	32.6 kVA, 26 kW
Standby	36.3 kVA, 29 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 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

Technical Data

Type.....	4-stroke diesel, cylinders in line
Manufacturer.....	Lombardini
Model.....	LDW 2004
No. of cylinders.....	4
Engine capacity	2068 cc
Bore	88 mm
Stroke	85 mm
Compression ratio.....	22:1
Aspiration.....	Atmospheric
Engine speed.....	3000 rpm
Prime power.....	45 HP DIN Nb 6271
Fuel consumption 100% load 3000 rpm	10.48 ltr/h
Fuel tank capacity	25 litres
Approximate running time without refill	2.4 hours
Noise level	78.2 dB (A) at 7 metres

Cooling system

Liquid cooled with axial fan.

Cooling air flow 3000 rpm	128 m ³ /min
Water pump flow rate 3000 rpm	93 l./min.

Lubrication system

Forced lubrication via rotating pump. External oil filter.

Oil sump capacity 4.5 litres

Consumption 0.032 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 LD
Power rating.....	31.5 kVA
Voltage(*).....	230/400 V three phase
Frequency.....	50/60 Hz
Speed	3000 rpm
Regulation.....	Electronic
Nominal current	45.5 A

(*) Other voltages: PLEASE CONSULT.

VERSIONS

The ***LW 30*** may be supplied in the following versions:

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

STATIONARY Version

PS-LW30

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

Dimensions: Length: 1776 mm, Width: 850 mm, Height: 1260 mm
Weight: 500 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-LW30

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: 1776 mm, Width: 850 mm, Height: 1260 mm
Weight: 500 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-LW30

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

Dimensions: 2531 x 1290 x 1717 mm Length x width x height

Weight: 580 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-LW30

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

Dimensions: 1776 x 850 x 1260 mm Length x width x height

Weight: 500 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. (Shown as "ALARMS NO STOP"). |
| • 1 Voltmeter | • Alarm system disconnecting generator, shutdown, audible alarm and visual signal for: |
| • 1 Mains-generator set voltmeter selector switch. | • Start-up failure |
| • 1 Frequency meter | • Low oil pressure |
| • 1 Battery voltmeter. | • High water/engine body temperature |
| • Off button. | • Overload |
| • Battery maintenance system. | • Protection fuse |
| • Battery indicator light. | • Thermo-magnetic circuit breaker. |
| • Battery charge light. | |
| • Large emergency stop push button. | |

TRANSFER SYSTEM

Made up of two mechanically and electrically interlocking contactors.

WORKING VOLTAGE: 400/230 V