

DLW 8

POWER RATING	1500 rpm/50 Hz	1800 rpm/60 Hz
<i>Prime</i>	7.5 kVA, 6 kW	9.1 kVA, 7.3 kW
<i>Standby</i>	8.5 kVA, 6.8 kW	10.1 kVA, 8.1 kW

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

The alternator is directly coupled 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 vibration are thus guaranteed.

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

ENGINE

4-stroke diesel engine with direct injection.

Manufacturer	Lombardini
Model.....	LDW 903
No. of cylinders.....	3
Engine capacity	916 cc
Bore	72 mm
Stroke	75 mm
Compression ratio	22.8:1
Aspiration.....	Atmospheric
Engine speed.....	1500 rpm
Prime power 1500 / 1800 rpm	11 / 13.18 HP DIN Nb 6271
Fuel consumption 100 % load 1500 / 1800 rpm	2.79 / 3.20 ltr/h
Fuel tank capacity.....	25 litres
Approximate running time without refill 1500/1800 rpm ..	8.96 / 7.82 hours
Noise level 1500 / 1800 rpm.....	63 / 66 dB(A) at 7 metres

Cooling system

Liquid cooled with axial fan

Cooling air flow 1500 / 1800 rpm	36.25 / 38 m3/min
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Lubrication system

Forced lubrication using rotating pump. External oil filter.

Oil sump capacity	2.4 litres
Consumption	0.012 kg/h

Induction system

Naturally aspirated via dry air filter.

Combustion air flow 1500 / 1800 rpm..... 0.69 / 0.83 m3/min

Injection system

Direct injection with pump - injector mounted on head. Fuel filter.

Electric system

12 V electric system. Axial starter motor. 55 A.h 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 or battery charge defect.

Exhaust system

Manifold silencer.

ALTERNATOR

Synchronous, 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.....	EC 3 SB/4
Power rating.....	8 kVA
Voltage(*).....	400/220 V three phase
Frequency.....	50 / 60 Hz
Speed	1500 / 1800 rpm
Regulation.....	Electronic
Nominal current	11.55 A

(*) For other voltages: Please consult.

VERSIONS

Generator set **DLW 8** may be supplied in the following versions:

STATIONARY, STATIONARY WITH CANOPY, MOBILE WITH CANOPY AND AUTOMATIC

STATIONARY

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

CONTROL PANEL

Metal cabinet with IP 54 protection, mounted on baseframe with anti-vibration pads.

Equipped with:

- Thermo-magnetic circuit breaker.
- Ammeter.
- Frequency meter
- Voltmeter
- Hours run meter.
- Three phase output terminals.
- On light.
- Heater button.

Control card including: ignition key, start/ stop buttons and indicator lights for low oil pressure, battery charge, high temperature and low fuel level.

STATIONARY WITH CANOPY

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

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

METAL CANOPY

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

CONTROL PANEL

Metal cabinet with IP 54 protection, mounted on baseframe with anti-vibration pads.

Equipped with:

- Thermo-magnetic circuit breaker.
- Ammeter.
- Frequency meter
- Voltmeter
- Hours run meter.
- Three phase output terminals.
- On light.
- Heater button.

Control card including: ignition key, start / stop buttons and indicator lights for low oil pressure, battery charge, high temperature and low fuel level.

MOBILE WITH CANOPY

Generator set on baseframe mounted on independent trailer. Includes metal canopy housing control panel which is operated manually using an ignition key.

METAL CANOPY

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

TRAILER

Made up of: wheels with tyres, DIN towing eye, rubber axle suspension and support leg. On request: jockey wheel.

CONTROL PANEL

Metal cabinet with IP 54 protection, mounted on baseframe with anti-vibration pads.

Equipped with:

- Thermo-magnetic circuit breaker.
- Ammeter.
- Frequency meter
- Voltmeter
- Hours run meter.
- Three phase output terminals.
- On light.
- Heater button.

Control card including: ignition key, start / stop buttons and indicator lights for low oil pressure, battery charge, high temperature and low fuel level.

AUTOMATIC

In the AUTOMATIC version, the generator set is supplied on a skidbase with an automatic start/stop panel for mains failure.

CONTROL PANEL

Mounted in a metal cabinet with IP 54 protection and supplied loose for wall mounting. Includes monitoring and control system, measuring and handling equipment 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 interlocking contactors. When the mains is restored, the load is reconnected to the mains, the set idles and then stops. Equipped with:

- Push button controls, indicating lamp and protection fuses.
- No. of start up attempts: 3
- Selector switch for Disconnect, Automatic Service, Manual Service and Test.
- The generator set may be selected to run manually or automatically. When running manually, start-up, shut-down 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 lamp.
- Battery charge indicator lamp.
- Large emergency stop push button.
- Visible and audible signal 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: 400/220 V

PowerSources
Produktion u. Vertrieb von Stromversorgungen

ROBERT-BOSCH-STR. 7 D-40668 MEERBUSCH
TEL.: +49 - 2150 - 9128 00
Fax: +49 - 2150 - 9128 09
http: www.powersources.de
E-mail: wvs@powersources.de

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