

Industrial Diesel Genset

DLW 11

POWER RATING	1500 rpm/50 Hz	1800 rpm/60 Hz
Prime	10 kVA, 8 kW	12.7 kVA, 10.2 kW
Standby	11 kVA, 8.8 kW	13.8 kVA, 11 kW

Generator set consisting of engine and alternator mounted on a fabricated steel profile skid base, finished with a phosphate coating and top coat. Alternator directly coupled to the engine flywheel housing to SAE standards. Rotor 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

Type..... 4 stroke diesel engine with direct injection.
Manufacturer Lombardini
Model LDW 1204
No. of cylinders 4
Engine capacity 1222 cc
Bore 72 mm
Stroke 75 mm
Compression ratio 22.8:1
Aspiration Atmospheric
Engine speed 1500 / 1800 rpm
Prime power 50/60Hz DINNb 6271 ..14.13/17.66HP
Fuel consume 50/60Hz100 % load.....3.4/4.2L/h
Fuel tank capacity.....25 litres
Approx. run time w/o refill 50/60Hz.....7.3/5.95h
Noise level 50/60Hz..... 65/68 dB(A) at 7m

Cooling system

Liquid cooled with axial fan
Cooling air flow 50/60Hz 36.66 / 44 m³/min.

Lubrication system

Forced lubrication using rotating pump. External oil filter.
Oil sump capacity 3.3 litres
Consumption 0.016 kg/h

Air intake system

Natural intake via dry air filter.
Combustion air flow 50/60Hz.....0.9 / 1.1 m³/min.

Injection system

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

Electric system

12 V electrical starting 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 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 LA/4
Power rating..... 11 kVA
Voltage(*)..... 400/220 V three phase
Frequency..... 50 / 60 Hz
Speed 1500 / 1800 rpm
Regulation..... Electronic
Nominal current 15.9 A
(*) For other voltages: Please consult.

VERSIONS

Generator set model DLW 11 may be supplied in the following versions:

STATIONARY, STATIONARY WITH CANOPY, MOBILE WITH CANOPY AND AUTOMATIC.

STATIONARY

DLW-11

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

DLW-11-C

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

DLW-11-MC

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

DLW-11-N

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