

INDUSTRIAL DIESEL GENSET

DD 15

OUTPUT	1500 rpm/50 Hz	1800 rpm/60 Hz
Continuous	14kVA, 11.2kW	17kVA, 13.6kW
Standby	16kVA, 12.8kW	20kVA, 16kW

Generator set consisting of engine and alternator mounted on a fabricated steel profile base, finished with a phosphate coating 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

Type..... 4 stroke diesel with direct injection
Manufacturer Deutz Diter
Model D 303.2
N° of cylinders 2
Engine capacity 1.650 cc
Bore 100 mm
Stroke 105 mm
Compression ratio 1:17,5
Aspiration..... Atmospheric
Engine speed 50/60 Hz 1500 / 1800 rpm
Continuous power 50/60 Hz DIN 6271 17.3/21hp
Consumption 100% load 3/3.5 ltr/h
Fuel tank capacity 25 litres
Approx. runtime w/o refill 50/60 Hz 7/6 hours

Cooling system

Air cooled by axial pusher turbine driven by trapezoidal fan belt.

Lubrication system

Forced lubrication using gear driven pump. Oil filter
Oil housing capacity 4.5 litres
Consumption 38 gr/h

Aspiration system

Natural aspiration via air filter soaked in oil.

Injection system

Injection pump in line with mechanical regulator.
Diesel fuel filter.

Electrical system

12 V electric starting system. Axial starter motor. 70 Ah battery. 33 Amp battery charging alternator. Oil pressure gauge and engine temperature thermal contact.

Protection system

Automatic engine shutdown if oil pressure too low, fuel lacking, temperature too high or battery charge defective.

Exhaust system

Consists of silencer with 10 db(A) noise reduction, flexible exhaust pipe and brackets. Residential silencer optional.

ALTERNATOR

Three phase, self-excited, self-ventilated, self regulated, voltage maintained within +/- 1 %. IP 23 protection. Manufactured to CE13, IEC 34.1, VDE 0530 and BS 4999.

Radio interference suppression to grade G of VDE 0875.

Manufacturer Mecc Alte
Model..... CT 3-LB/4
Potencia 13 kVA
Voltage (*) 380/220 V three phase
Frequency 50 / 60 Hz
Speed 1500 / 1800 rpm
Regulation Electronic
Nominal intensity 20 A
(*) Other voltages: PLEASE CONSULT.

VERSIONS

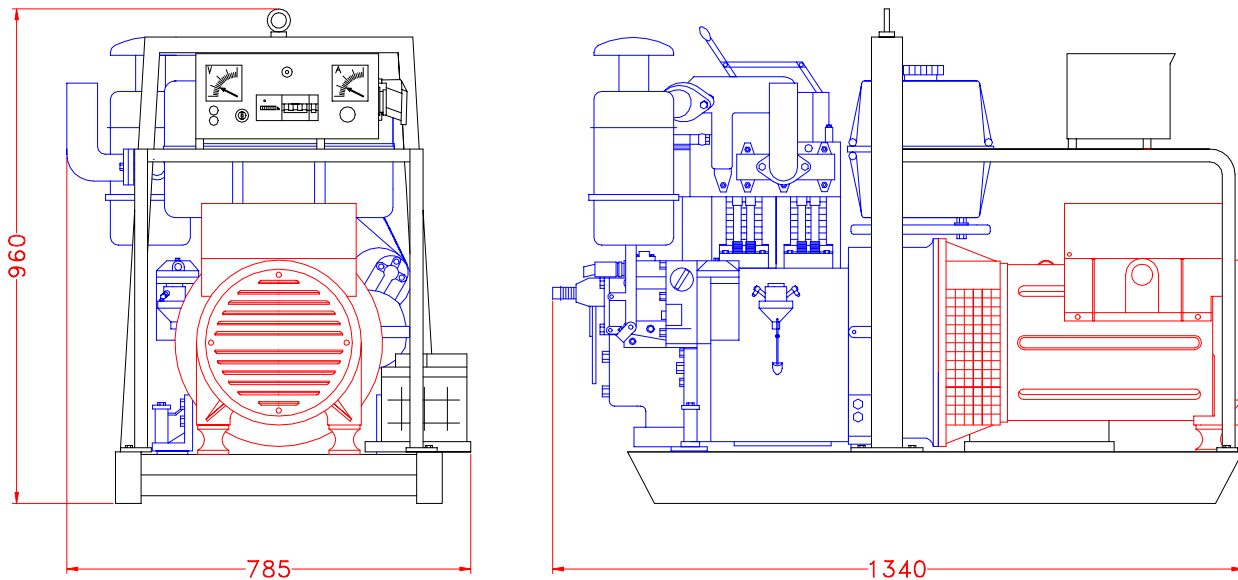
The **DD 15** generator set may be supplied in the following versions:

FIXED, MOBILE WITH CANOPY AND AUTOMATIC

STATIONARY VERSION

DD 15

In the fixed version, the set is supplied on a base frame and with a control panel operated manually using an ignition key.



Control panel

Metal cabinet mounted on the frame with anti-vibration pads.

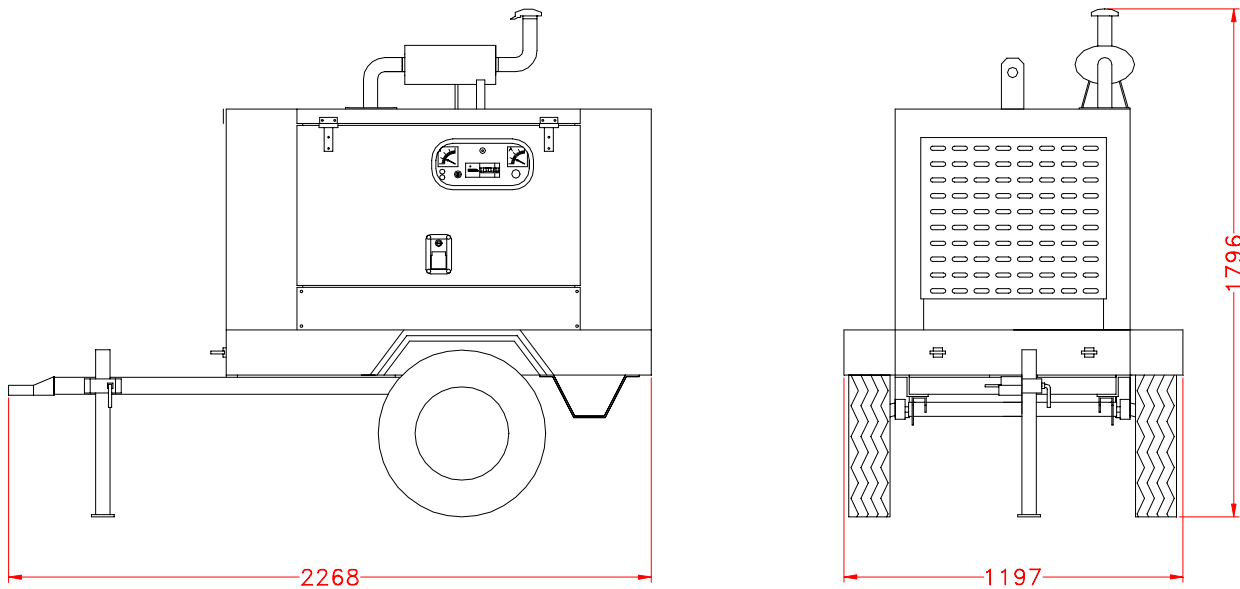
Equipped with:

- Thermo - magnetic switch
- 1 Ammeter
- Voltmeter.
- Hour run meter.
- Three phase output terminal.
- Single phase base.
- Battery indicator lamp.
- Oil pressure indicator
- Connection indicator lamp.
- Ignition key.
- Stop pushbutton.

MOBILE VERSION WITH CANOPY

DD 15-MC

Set on baseplate mounted on independent trailer kit. Incorporates metal canopy which houses the control panel and is operated manually via an ignition key.



Metal canopy

Ideal for outdoor use, it is finished with a phosphate coating and a long lasting top coat of paint

Trailer kit

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

As an option, A REGULATION TRAILER KIT for road transportation may be supplied

Control panel

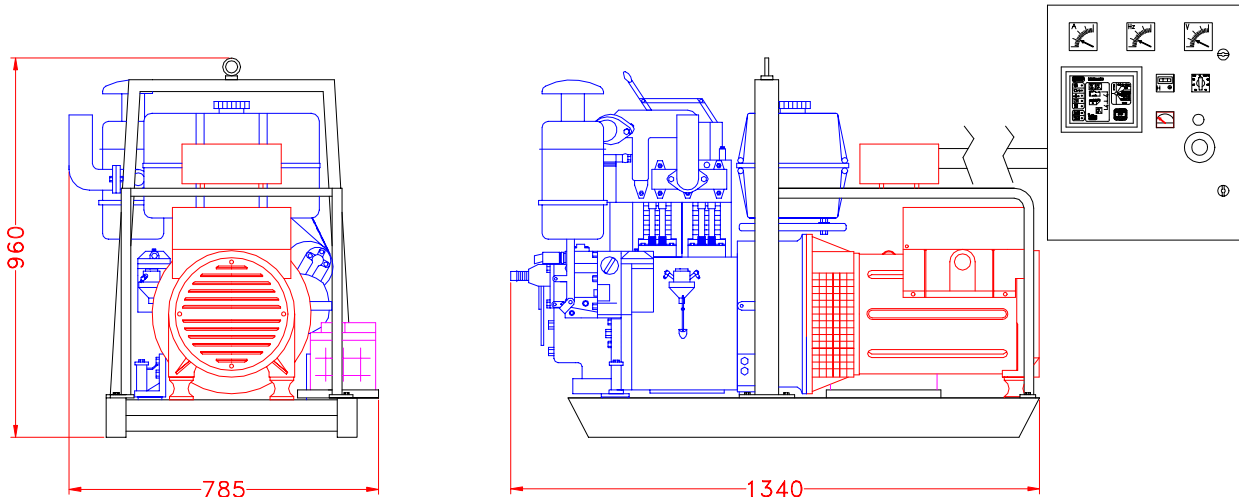
Metal cabinet, with IP 54 protection, mounted on the baseframe with anti-vibration pads. Equipped with:

- Thermo - magnetic switch
- 1 Ammeter
- Voltmeter.
- Hour run meter.
- Three phase output terminal.
- Single phase base.
- Battery indicator lamp.
- Oil pressure indicator
- Connection indicator lamp.
- Ignition key.
- Stop pushbutton.

AUTOMATIC VERSION

DD 15-N

Automatic version generator set supplied on a baseplate with an automatic start/stop panel for mains failure.



ELECTRICAL PANEL

Mounted in a metal cabinet with IP 54 protection and supplied loose for wall mounting. Includes control, measuring 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 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. Equipped with:

- Push button controls, indicating lamp and protection fuses.
- N° of start up attempts: 3
- Three phase voltage monitor with adjustable values.

Measuring equipment

Consists of the following items:

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| <ul style="list-style-type: none">• 3 Ammeters• 1 Voltmeter• 1 mains voltmeter commutator.• 1 Frequency meter• 1 Battery voltmeter.• Selector switch for Disconnect, Automatic Service, Manual Service and Test• Off button. | <ul style="list-style-type: none">• Start-up commutator• Heater indicator lamp• Battery maintenance system• Battery indicator lamp• Audible alarm for faults• Visible alarm system for low oil pressure, high temperature and/or overload• Large emergency stop push button. |
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The set may be selected to run manually or automatically: When running manually a pushbutton is used for shutdown and a selector switch is used for start up and transfer.

Transfer system

Made up of two 28 A contactors with mechanical and electrical activation. WORKING VOLTAGE: 380/220 V