

INDUSTRIAL DIESEL GENSET

DD 40 - AC/DC Special

POWER RATING	1500 rpm/50 Hz	AC	DC
Prime	37kVA, 29.6kW	18kVA	15kW
Standby	43.5kVA, 34.8kW	27kVA	13kW

Generator set consisting of engine and alternator mounted on a fabricated steel profile base, painted 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
Model..... F4L-912
No. of cylinders..... 4
Engine capacity 3770 cc
Bore 100 mm
Stroke 120 mm
Compression ratio 17: 1
Aspiration..... Atmospheric
Engine speed 50 / 60 Hz 1500 / 1800 rpm
Prime power 50 / 60 Hz 50.3 / 61.1 HP ISO 3046/1 (IFN) Nb
Fuel consumption 100% load 50 / 60 Hz 8.9 / 10.4 ltr/h
Fuel tank capacity..... 109 litres
Approximate running time without refill 50 / 60 Hz 12.2 / 10.5 hours
Noise level 93 / 96 dB(A) at 1 metre

Cooling system

Air cooled by axial fan.

Cooling air flow 1500 / 1800 rpm..... 1810 / 2170 m3

Lubrication system

Forced lubrication using gear driven pump. Oil filter

Oil sump capacity 11.5 litres
Consumption 0.7 % of fuel consumption

Aspiration system

Natural aspiration via air filter soaked in oil.

Injection system

Injection pump in line with centrifugal mechanical regulator. Fuel filter.

Electrical system

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

Protection system

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

Exhaust system

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

Exhaust gas flow 1500 / 1800 rpm.....160 / 192 m3/h

ALTERNATOR

Synchronous, three phase and brushless. Self regulation via automatic voltage regulator maintaining voltage within +/- 1.5%. Class "H" insulation. All windings are impregnated with polyester resin, making them resistant to acids and oil. IP 22 protection. Electrical characteristics to BS 5000, VDE 0530, UTE 5100, NEMA MG 1-22, CMA IEC 34, CSA 22,2 and AS 1359. Harmonic distortion below 3.5%. Radio interference suppression to BS-800.

Manufacturer	Stamford
Model.....	UCD 224 C16
Power rating.....	42.5 kVA at 1500; 52.5 kVA at 1800 rpm
Voltage (*).....	380/220 V three phase
Frequency.....	50 / 60 Hz
Speed	1500 / 1800 rpm
Regulation.....	Electronic
Nominal current	64.6 A

(*) Other voltages: PLEASE CONSULT.

DC-CONVERTER

Self standing unit, rugged and maintainance free with latest state-of-the-art technology. Also suited for outdoor use painted with a phosphate primer and a long lasting top coat.

Manufacturer	PowerSources
Model.....	DBGV 28-535
Power rating.....	15kW at 1500rpm
Voltage (*).....	28Vdc +/-2%
Voltage Manual Preset	+/-5%
Regulation.....	Electronic
Nominal current	535 A
Panel Options	Voltmeter, Amperemeter, Circuit breaker
.....	DC On, Push Button Emergency off
Protection calss	IP44
Dimensions (HxWxD)	650x800x550mm
Weight	approx. 230kg

STATIONARY VERSION

DD 40-AC/DC

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

Dimensions (LengthxWidthXHeight): 2100 x 850 x 1460 mm

CONTROL PANEL

Metal cabinet with IP 54 protection mounted on frame with anti-vibration pads. Equipped with:

- Thermo - magnetic circuit breaker
- 3 Ammeters.
- Frequency meter.
- Voltmeter with selector switch.
- Hours run meter.
- Three phase output terminals.
- Battery voltmeter.
- Fuel meter.
- On light.

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

STATIONARY VERSION WITH CANOPY

DD 40-AC/DC-C

In the stationary with canopy version, the set is supplied on a skidbase. It features a metal canopy housing a control panel which is operated manually using an ignition key.

Dimensions: 2116 x 850 x 1659mm Length x Width x Height

CONTROL PANEL

Metal cabinet with IP 54 protection mounted on frame with anti-vibration pads. Equipped with:

- Thermo - magnetic circuit breaker
- 3 Ammeters.
- Frequency meter.
- Voltmeter with selector switch.
- Hours run meter.
- Three phase output terminals.
- Battery voltmeter.
- Fuel meter.
- On light.

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