

INDUSTRIAL DIESEL GENSET

SERIES DP 40

POWER RATING	1500 rpm/50 Hz	1800 rpm/60 Hz
Prime	42.0 kVA, 33.6 kW	46.0 kVA, 37.0 kW
Standby	46.0 kVA, 37.0 kW	52.5 kVA, 41.0 kW

Generator set consisting of engine and alternator mounted on a fabricated steel profile 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

4-stroke diesel engine with direct injection.

Manufacturer Perkins
Model 4.236
No. of cylinders 4
Engine capacity 3860 cc
Bore 98.4 mm
Stroke 127.0 mm
Compression ratio 16: 1
Aspiration Atmospheric
Cooling Water cooled
Engine speed 50/60 Hz 1500/1800 rpm
Prime power ISO 3046 50/60Hz 51.5 / 58.6 bhp
Fuel consume 100% load 50/60Hz 10.5/12 l/h
Fuel tank capacity 110 litres
Approx. run time w/o refill 10/9h at 50/60Hz

Cooling system

Closed circuit water cooled with expander tank included in the radiator. Tropical radiator and pusher fan with guard. Equipped to work at ambient temperatures of up to 52° C.

Cooling air flow from fan 50/60Hz 89/102m³/min
Cooling system capacity 16.9 litres

Lubrication system

Forced lubrication using gear driven pump. Oil filter
Oil sump capacity 7 litres
Consumption Max. 1% of fuel consumption

Aspiration system

Natural aspiration via dry air filter.
Aspired air flow 2.8 m³/min

Injection system

Rotating injection pump with mechanical governor.
Fuel filter and pre-filter.

Electrical system

12 V electric starting system. Axial starter motor. 95 A.h. battery. 55 Amp battery charging alternator. Oil pressure and engine temperature sensors.

Protection system

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

Exhaust system

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

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 UC 224 C
Power rating 42.5/52.5 kVA at 1500/1800 rpm
Voltage (*) 380/220 V three phase
Frequency 50 / 60 Hz
Speed 1500 / 1800 rpm
Regulation Electronic
Nominal current 64.6 A

(*) 12 wire output permitting reconnection to any existing voltage.

VERSIONS

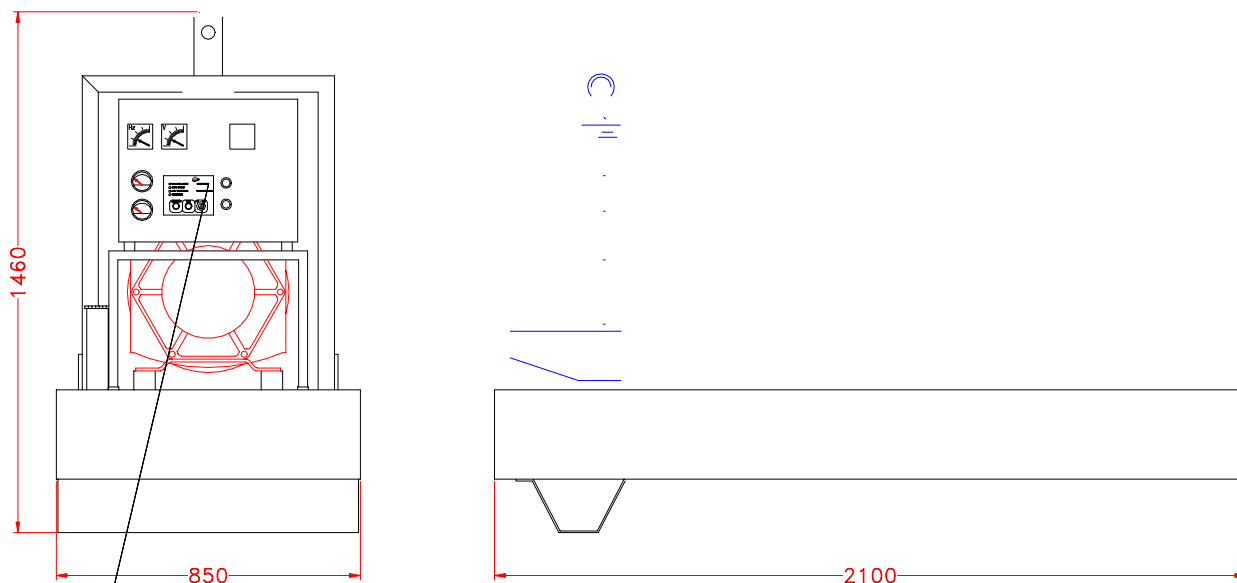
The **DP 40** generator set may be supplied in the following versions:

STATIONARY, STATIONARY WITH CANOPY, MOBILE WITH CANOPY AND AUTOMATIC

STATIONARY VERSION

DP 40

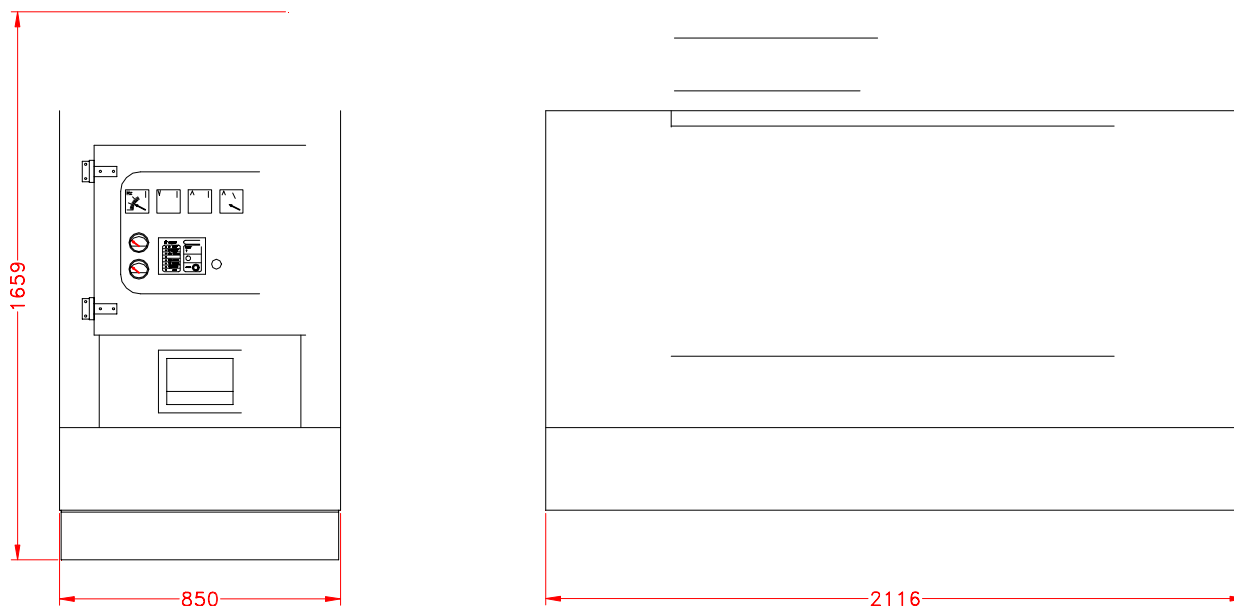
In the stationary version, the set is supplied on a skidbase with a control panel operated manually using an ignition key. Control panel Metal cabinet, IP954 protection, mounted on the frame with anti-vibration pads. Equipped with:



STATIONARY VERSION WITH CANOPY

DP 40-C

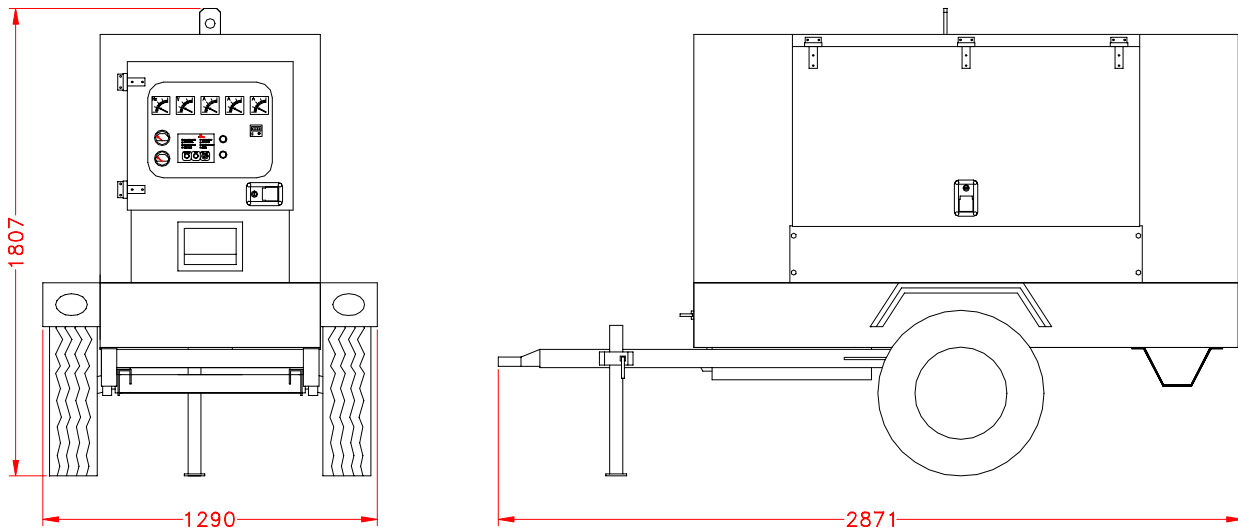
In this version, the set is supplied on a skidbase with a metal canopy for outdoor use. The control panel is set in the canopy and is operated manually using an ignition key. Metal canopyIdeal



MOBILE VERSION WITH CANOPY

DP 40-MC

Set on baseframe mounted on independent trailer. Incorporates metal canopy housing 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

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

As an option, A TRAILER ADAPTED 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 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 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.

AUTOMATIC STATIONARY VERSION

DP 40-N

Automatic version generator set supplied on skidbase with an automatic start/stop panel for mains failure. **ELECTRICAL PANEL**

