



# ULTIMATE POWER SOLUTION (FZC)

The world's best dealer on Diesel Power Generation, Control Systems & Power Solution

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CERTIFIED BY



**300 KVA**  
3 PHASE

**50 Hz**

## GENERATING SET MODEL ( UPS D 300 )

Output Ratings	Prime	Standby
380-415 V, 3 ph, 50 Hz, 1500 rpm	300 KVA 240 KW	330 KVA 276 KW
380-415 V, 3 ph, 60Hz, 1800 rpm	345 KVA 264 KW	380 KVA 304 KW

## ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor

Engine Make	Doosan	
Engine Model	P126TI-II	
Governing Type	Electronic	
Number of Cylinders	6	
Cylinder Arrangement	Vertical in line	
Bore and Stroke mm	123 X 155	
Displacement / Cubic Capacity litres	11.051	
Induction System	Turbocharged aftercooled	
Cycle	4 stroke	
Combustion System	Direct Injection	
Compression Ratio	17.1:1	
Rotation	Anti-clockwise, viewed on flywheel	
Cooling System	Water - cooled	
Frequency and Engine Speed	50Hz & 1500rpm	60Hz & 1800rpm
Gross Engine Power kW (hp)	265 (360)	307 (418)
Fuel Consumption @ 50% load L/hr	31.3	37.0
@ 75% load L/hr	47.0	56.0
@ 100% load L/hr	63.1	73.8
Total Lubrication System Capacity litres	20	23
Total Coolant Capacity litres	51	51
Exhaust Temperature: °C		

Image for illustrative purposes only



**345 KVA**  
3 PHASE

**60 Hz**

## ALTERNATOR DATA

Make	UPS/ Leroy Somer
Model	UPS314C/LSA (TAL) 046F
No. of bearings	1
Insulation class	H
Wires	12
Ingress Protection	IP23
Excitation System	SELF
Winding Pitch	2/3
AVR Model	
Overspeed	2250 mn <sup>-1</sup>
Voltage Regulation (steady)	± 1%

## CONTROL PANEL

Make	Deep Sea
Model	4000 SERIES

The DSE 4000 Series is an Auto Start Control Module for single genset applications. It includes a LCD display which clearly shows the status of engine all the times. This module can either programmed using the front panel or by using the DSE configuration suite PC software.

### Metering and Alarm indications:

- Generator frequency
- Underspeed, Overspeed
- Generator volts (L-L, L-N)
- Generator current
- Engine oil pressure
- Engine coolant temperature
- Hours run counter
- Battery volts
- Fail to start/stop
- Emergency stop
- Failed to reach loading voltage/frequency
- Charge fail
- Low DC voltage
- CAN diagnostics and CAN fail/error

**300 KVA**  
3 PHASE

**50 Hz**

## STANDARD SPECIFICATIONS

**60 Hz**

**345 KVA**  
3 PHASE

### 1. ENGINE

Doosan four stroke heavy duty high performance industrial type diesel engine.

### 2. ENGINE FILTRATION SYSTEM

- Cartridge type dry air filter.
  - Two Cartridge type fuel filters.
  - Full flow lube oil filter.
- All filters have replaceable elements.

### 3. COOLING RADIATOR

Radiator and cooling fan, complete with safety guards, designed to cool the engine at high ambient temperatures (consult your dealer for de-ration factors)

### 4. EXHAUST SYSTEM

Exhaust gas flow 75.8 m<sup>3</sup>/min  
Maximum allowable back pressure 10.7 kPA

### 5. CIRCUIT BREAKER TYPE

3 pole MCCB. (4 pole is optional)

### 6. FUEL SYSTEM

The baseframe design is incorporated with an integral fuel tank with a capacity of approx. 8 hours running at Full Load. The tank is supplied complete with fill cap breather, fuel feed and return lines to the Engine and drain plug.

### 7. ALTERNATOR

#### 7.1 INSULATION SYSTEM

- The insulation system is Class H.
- All windings are impregnated in either a triple dip thermosetting liquid, oil and acid resisting polyester varnish or vacuum pressure impregnated with a special polyester resin.
- Heavy coat of antitracking varnish additional protection against moisture or condensation.

#### 7.2 AUTOMATIC VOLTAGE REGULATOR (AVR)

The fully sealed Automatic Voltage Regulator maintains the Voltage Regulation at  $\pm 1\%$ . Nominal adjustment by means of a trim pot incorporated on the AVR.

### 8. MOUNTING ARRANGEMENT

#### 8.1 COUPLING

The Engine and Alternator are directly coupled by means of an SAE flange. The Engine flywheel is flexibly coupled to the Alternator rotor.

#### 8.2 ANTI-VIBRATION MOUNTING PADS

Anti-Vibration pads are affixed between the Engine / Alternator feet and the Baseframe thus ensuring complete vibration isolation of the rotating assembly.

#### 8.3 SAFETY GUARDS

The Fan & Fan Drive along with the Battery Charging Alternator are Safety Guard protected for personnel protection.

### 9. FACTORY TEST

- The Generating set is load tested before dispatch
- All protective devices control functions and site load conditions are simulated. The generator and it's systems are checked before dispatch.

### 10. EQUIPMENT FINISHING

All mild steel components are fully degreased and painted with powder coated paint to ensure maximum scuff resistance and durability.

### 11. DOCUMENTATION

Operation & Maintenance manual, Circuit wiring diagrams and Commissioning / Fault Finding instruction leaflets are accompanied with the Generator.

### 12. QUALITY STANDARDS

The equipment meets the following standards: BS4999, BS5000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO 8528.

### 13. WARRANTY

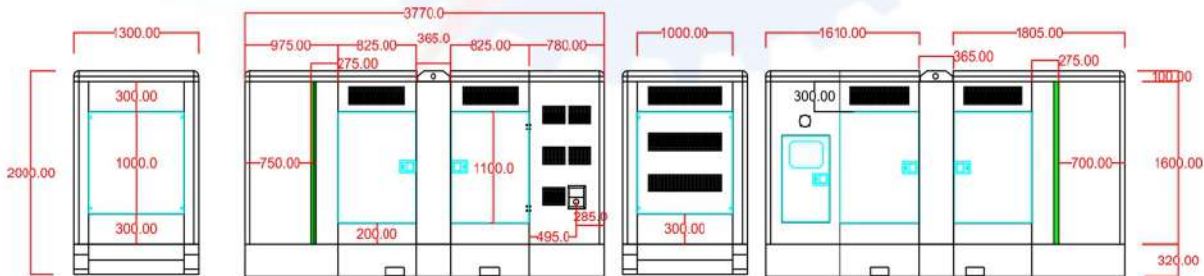
All of the Generating Sets are covered under a warranty policy for a period of 12 months or 1000 working hours. Warranty of the equipment is in line with manufacturers warranty terms & conditions.

(check warranty statement for more details, as it may vary for different countries)

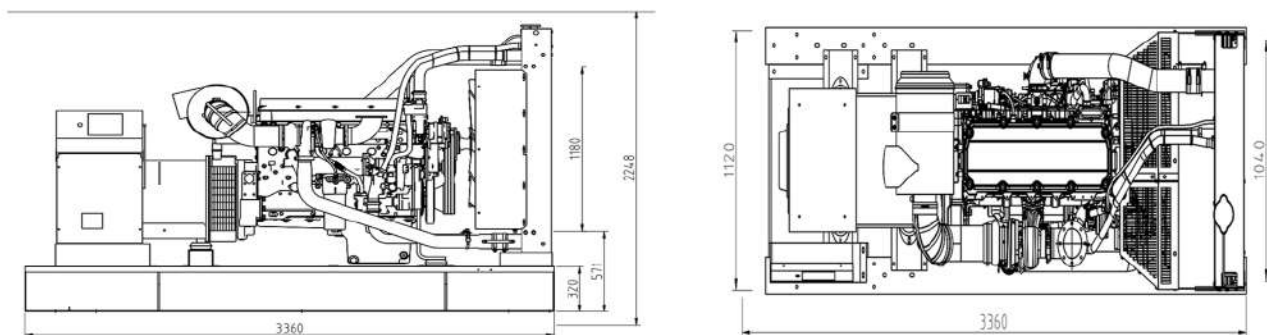
In line with continuous product development, we reserve the right to change specifications without notice.

## STANDARD GENERATOR DIMENSION AND WEIGHT

### Silent Type (with Soundproof Canopy)



### Open Type (without Soundproof Canopy)



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