ULTIMATE POWER SOLUTION (FZC)

The world's best dealer for Power Generation, Control System, & Power Solution

POWERED BY:

1000 KVA

3 PHASE **50 Hz**

GENERATING SET MODEL (UPSC1000)

Output Ratings	Prime	Standby
380-415 V, 3ph, 50 Hz, 1500 rpm	1000 KVA	1100 KVA
	800 KW	880 KW

ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor

Engine Make	CUMMINS
Engine Model	KTA38-G5
Governing Type	Electrical
Number of Cylinder/ Arrangement	12/ 60°V
Bore and Stroke (mm)	159 mm x 159 mm
Compression Ratio	13.9 : 1
Displacement (L)	38 L
Aspiration and Cooling	Turbocharged & After-cooled
Frequency regulation, steady state	±0.25%
Engine air flow	1213 L/s
Exhaust temperature	513°C
Frequency and Engine Speed	50 Hz / 1500 rpm
Fuel Consumption @50% load	115.7 L/hr
@75% load	165.1 L/hr
@100% load	214.5 L/hr
@110% load	233.7 L/hr
Total oil capacity w/ filter	135.1 L
Engine capacity	123.8 L
Max Water Temperature	104°C
Thermostat	82-93°C

ALTERNATOR

Make	UPS / Leroy Somer
Model	UPS404J / TAL A49-D
No. of bearings	1
Pole	4
Coupling	Direct
Exciter Type	SHUNT
Insulation	H/H
Degree of protection	IP23
AVR Model	R150
Altitude	≤1000m
Winding Pitch	2/3
Winding Leads	6/12

CONTROL PANEL

Make	DeepSea
Model	6110/20 SERIES

The DSE 6110/20 Seeries., is an Auto Start Control for single genset application. 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 configuraton sale 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 diagnostic and CAN fail/error

CERTIFIED BY:

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STANDARD SPECIFICATIONS

1000 KVA
3 PHASE **50 Hz**

1. ENGINE

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

2. ENGINE FILTERATION SYSTEM

- Cartridge type dry air filter.
- 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	3306 L/s
Maximum allowable back pressure	10 (kPa)

5. CIRCUIT BREAKER TYPE

3 pole MCCB. (4 pole is optional)

6. Fuel System

The baseframe design is not incorporated with an integral fuel tank.

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 polyesterresin.
- 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 ±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 Basetrame 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 its 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 Commissioningl/Fault Finding instruction leaflets are accompaniedwith the Generator.

12. QUALITY STANDARDS

The equipment meets the following standards: B84999, B65000, BS5514 IEC 60034, VDE0530, NEMA MG 1.22 and ISO8528.

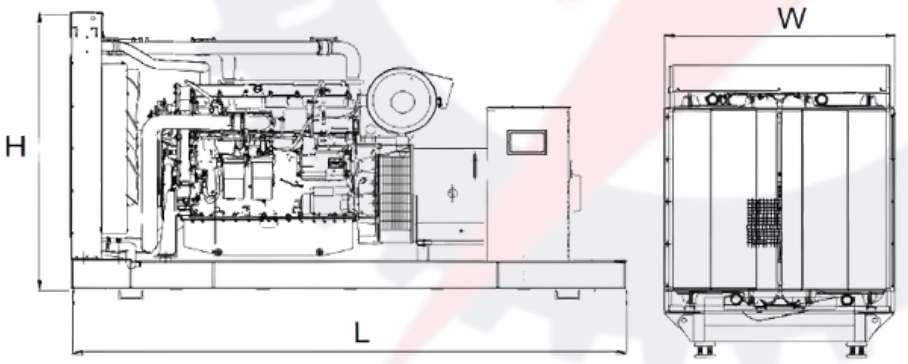
13. WARRANTY

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

Standard Generator

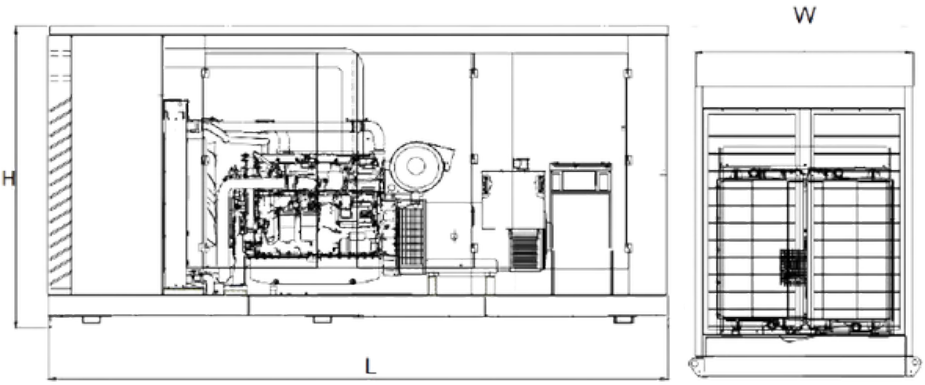


Length, L: **4320 mm**

Height, H: **2263 mm**

Width, W: **2000 mm**

Generator with Soundproof and Containerize Canopy



Length, L: **6058 mm**

Height, H: **2591 mm**

Width, W: **2438 mm**