

# ULTIMATE POWER SOLUTION (FZC)

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

POWERED BY:



## 775 KVA

3 PHASE

60 Hz

## 725 KVA

50 Hz

3 PHASE

### GENERATING SET MODEL (UPSC775)

| Output Ratings                  | Prime   | Standby |
|---------------------------------|---------|---------|
| 380-415 V, 3ph, 50 Hz, 1500 rpm | 725 KVA | 800 KVA |
|                                 | 580 KW  | 640 KW  |
| 380-415 V, 3ph, 60 Hz, 1800 rpm | 775 KVA | 850 KVA |
|                                 | 620 KW  | 680 KW  |

### ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor

|                                    |                                        |
|------------------------------------|----------------------------------------|
| Engine Make                        | CUMMINS                                |
| Engine Model                       | KT38-GA                                |
| Governing Type                     | Electrical                             |
| Number of Cylinder/ Arrangement    | 12/ V                                  |
| Bore and Stroke (mm)               | 159 mm x 159 mm                        |
| Compression Ratio                  | 14.5 : 1/ 15.5 : 1                     |
| Displacement (L)                   | 38 L                                   |
| Aspiration and Cooling             | Turbocharged                           |
| Frequency regulation, steady state | ±0.25%                                 |
| Engine air flow                    | 873-1298 L/s                           |
| Exhaust temperature                | 491-569°C                              |
| Frequency and Engine Speed         | 50 Hz / 1500 rpm      60 Hz / 1800 rpm |
| Fuel Consumption @50% load         | 85.5 L/hr                              |
| @75% load                          | 120 L/hr                               |
| @100% load                         | 157.8 L/hr                             |
| @110% load                         | 189.2 L/s      177.1 L/hr              |
| Total oil capacity w/ filter       | 135.1 L                                |
| Engine capacity                    | 199.5 L                                |
| Max Water Temperature              | 104°C                                  |
| Thermostat                         | 82-93°C                                |

### ALTERNATOR

|                      |                     |
|----------------------|---------------------|
| Make                 | UPS / Leroy Somer   |
| Model                | UPS354D / TAL A49-C |
| 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



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**775 KVA****3 PHASE****60 Hz**

# STANDARD SPECIFICATIONS

**725 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                | 2681-3351 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 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 Basframe 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 Commissioning/Fault Finding instruction leaflets are accompanied with the Generator.

## 12. QUALITY STANDARDS

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

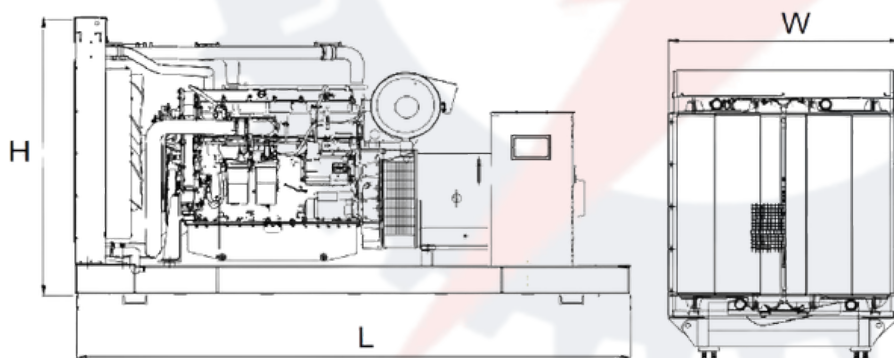
## 13. WARRANTY

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

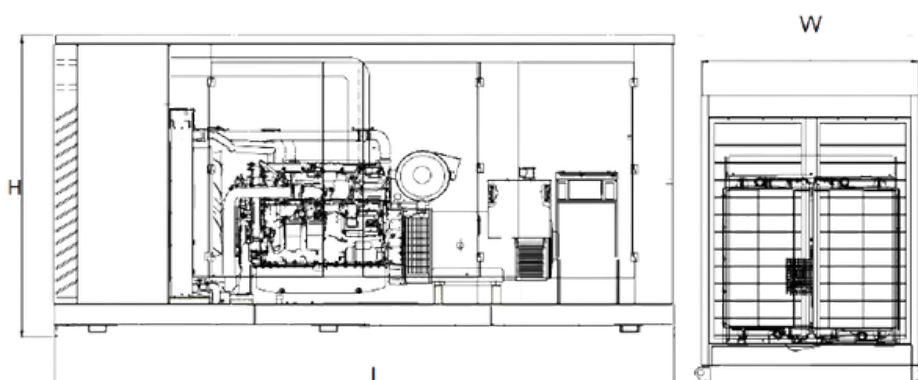


Length, L: 4268 mm

Height, H: 2250 mm

Width, W: 1770 mm

Generator with Soundproof and Containerize Canopy



Length, L: 6058 mm

Height, H: 2591 mm

Width, W: 2438 mm