

# ULTIMATE POWER SOLUTION (FZC)

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

POWERED BY:



## 905 KVA

3 PHASE

60 Hz

## 750 KVA

50 Hz

3 PHASE

### GENERATING SET MODEL (UPSC905)

| Output Ratings                  | Prime   | Standby  |
|---------------------------------|---------|----------|
| 380-415 V, 3ph, 50 Hz, 1500 rpm | 750 KVA | 825 KVA  |
|                                 | 600 KW  | 660 KW   |
| 380-415 V, 3ph, 60 Hz, 1800 rpm | 905 KVA | 1000 KVA |
|                                 | 724 KW  | 800 KW   |

### ENGINE / TECHNICAL DATA

Ratings at 0.8 Power Factor

|                                    |                             |                  |
|------------------------------------|-----------------------------|------------------|
| Engine Make                        | CUMMINS                     |                  |
| Engine Model                       | KTA38-G2                    |                  |
| Governing Type                     | Electrical                  |                  |
| Number of Cylinder/ Arrangement    | 12/ 60°V                    |                  |
| Bore and Stroke (mm)               | 159 mm x 159 mm             |                  |
| Compression Ratio                  | 14.5 : 1                    |                  |
| Displacement (L)                   | 38 L                        |                  |
| Aspiration and Cooling             | Turbocharged & After-cooled |                  |
| Frequency regulation, steady state | ±0.25%                      |                  |
| Engine air flow                    | 873-1298 L/s                |                  |
| Exhaust temperature                | 502-552°C                   |                  |
| Frequency and Engine Speed         | 50 Hz / 1500 rpm            | 60 Hz / 1800 rpm |
| Fuel Consumption @50% load         | 100 L/hr                    | 124.1 L/hr       |
| @75% load                          | 128.9 L/hr                  | 160.2 L/hr       |
| @100% load                         | 168.7 L/hr                  | 208.4 L/hr       |
| @110% load                         | 182 L/hr                    | 230.1 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                | UPS404G / TAL A49-B |
| 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:



Tel: +971 6 5570722  
Fax: +971 6 5570733

P.O. Box: 122333

F3-18, Sharjah Airport Free Zone (SAIF Zone)

E-mail: [info@upsgenerator.com](mailto:info@upsgenerator.com)  
Web: [www.upsgenerator.com](http://www.upsgenerator.com)

# 905 KVA

3 PHASE

60 Hz

## STANDARD SPECIFICATIONS

# 750 KVA

50 Hz

3 PHASE

### 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 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 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.

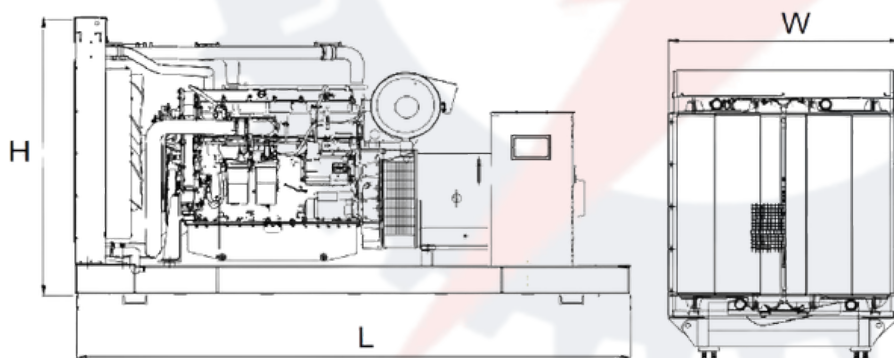
### 13. WARRANTY

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

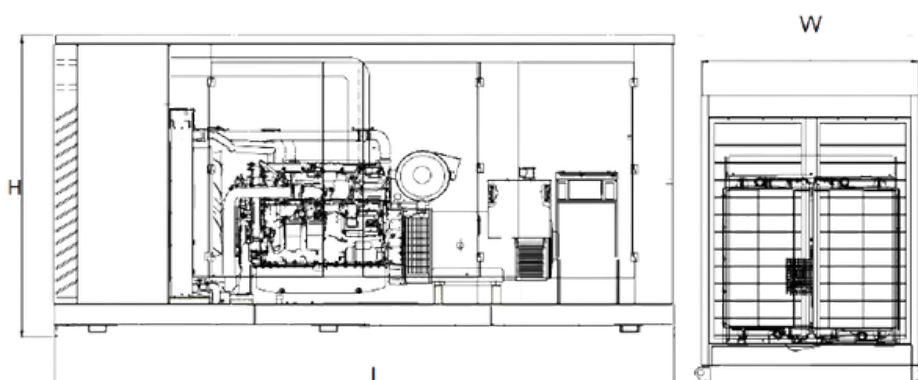


Length, L: 4268 mm

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