

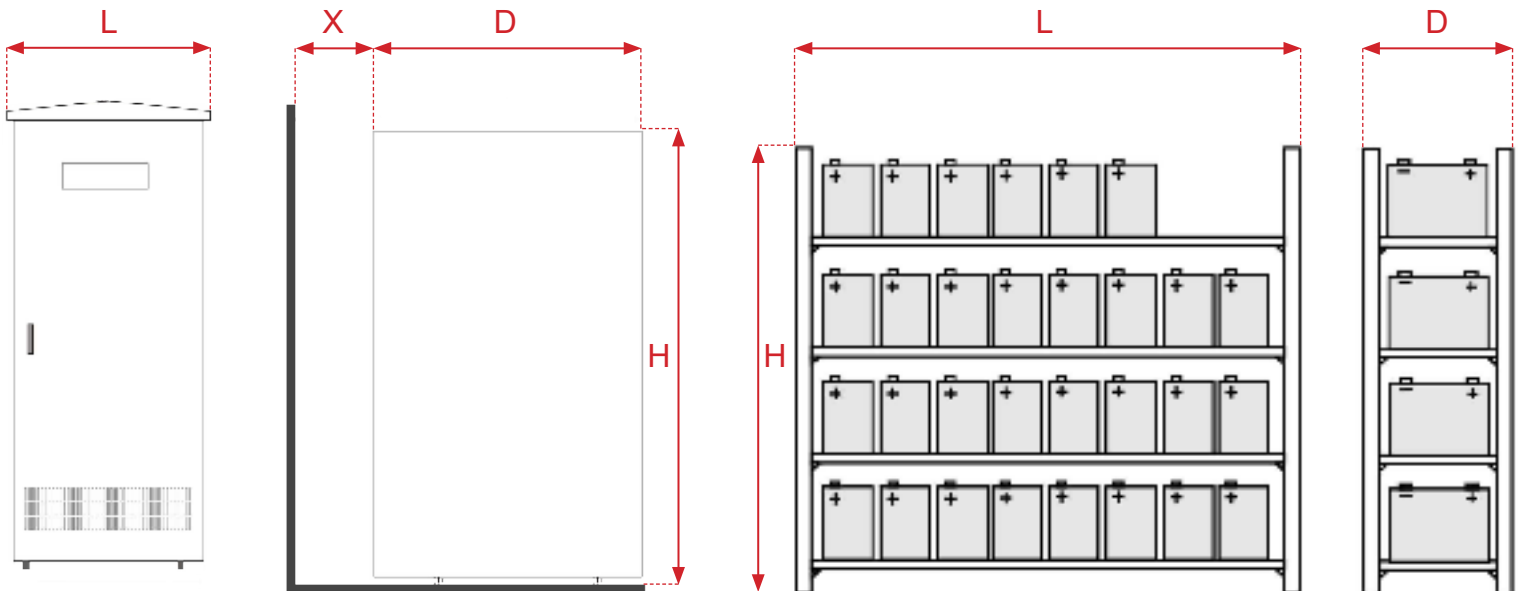
## VES 340 DSP 40kVA Power Cabinet



The Ventilux Emergency Lighting (VES) series of Static Inverters are designed specifically for the most challenging of emergency lighting applications and are fully in compliance with EN50171, EN50272-2, BS5266, IS3217 and ICEL1009. Providing capacity up to 40kVA, the Ventilux range of Inverters is designed to provide a Static Inverter with all the flexibility and adaptability you need for the modern built environment. The Static Inverters are renowned for consistent reliability, ease of installation and maintenance. With options for either no break in supply, or transfer times less than 0.5s, the Ventilux Static Inverter range have solutions available for all with a wide choice of power ratings, accessories and Automatic Testing Solutions.

### Features

- 40kVA Power Cabinet.
- 3/3 Configuration via display.
- Recharges batteries up to 80% within 12 hours.
- True Sinewave output & PWM microprocessor controlled technology.
- Front access for all maintenance and repair.
- FAR Controls including 48Vdc supply for Fire Alarm Panel.
- Selectable Non-Maintained/Maintained Mode with External Control (If external contactor fitted).
- Deep Discharge Protection.
- External Test Facility included.
- User selectable Inverter or Changeover Mode.
- DC short circuit protection.
- LCD panel providing accurate detailed information about load, batteries and inverter with advanced diagnostics.
- RS232 and dry contacts for communication and remote monitoring.



Static Inverter Dimensions VES 340 DSP

|   |      |
|---|------|
| <b>L</b> = Length (mm's)  | 555  |
| <b>D</b> = Depth (mm's)   | 920  |
| <b>H</b> = Height (mm's)  | 1470 |
| <b>X</b> = Distance from rear of static to wall (mm's) *Minimum | 300  |

Cladded Battery Rack Dimensions

|                          |      |
|--------------------------|------|
| <b>L</b> = Length (mm's) | 2850 |
| <b>D</b> = Depth (mm's)  | 875  |
| <b>H</b> = Height (mm's) | 2000 |

Static Inverter Weight

|                   |     |
|-------------------|-----|
| Net weight (kg's) | 197 |
|-------------------|-----|

Battery Rack Weight

|                   |      |
|-------------------|------|
| Net weight (kg's) | 5134 |
|-------------------|------|

|   |   |
|---|---|
| <b>MODEL</b>                                      | VES 340 DSP   |
| Power rating kVA / kW                             | 40 / 36   |
| <b>INPUT</b>                                      |   |
| Nominal Voltage                                   | 380 / 400 / 415 VAC (3PH + N + PE)                        |
| Voltage Range                                     | ±15%  |
| Power Factor                                      | 0.99 @ Full load  |
| Harmonic Distortion                               | <5% @ 100% load   |
| Frequency Range                                   | 50 Hz ± 5%  |
| <b>OUTPUT</b>                                     |   |
| Nominal Voltage                                   | 230 / 400 Vac (3Ph + N + PE)                              |
| AC Voltage Regulation                             | ±2%   |
| Frequency Range                                   | ±1%   |
| Power Factor                                      | 0.9   |
| Crest Factor                                      | 3:1   |
| Harmonic Distribution (linear load)               | <3%   |
| Transfer Time                                     | <0.5 secs   |
| Waveform  | Sinewave  |
| Load Circuits                                     | 1   |
| Maximum MCB size to be used in Final Distribution | C10   |
| Overload  | 120% continuous, 120 - 150% for 10mins, 150-180% for 1min |
| Mode Operation                                    | Changeover or Inverter selectable                         |
| Maintained / Non Maintained                       | Maintained (standard) / Non-Maintained (optional)         |
| <b>BATTERY</b>                                    |   |
| Battery Qty & Type                                | 120 x PSLIFR135-12 VRLA                                   |
| External  | 3 hour (Standard) 1 Hour (optional)                       |
| End of Life to EN50171:2021/IEEE                  | Included  |
| Charge Battery to 80% within 12 hours             | Included  |
| Temperature Compensation                          | Optional  |
| Deep Discharge Protection                         | Included  |
| DC Earth Leakage                                  | Optional  |
| <b>LIGHTING CONTROL INTERFACE</b>                 |   |
| External Mains Fail Test Connection               | Included  |
| Non-Maintained Mode Connection                    | Included  |
| FAR Connection                                    | Included  |
| External Phase Fail Connection                    | Included  |
| 24 Vdc Supply for External Contractor             | Included  |
| KNX / DALI / NODE Interface                       | Optional  |
| Mains Fail Test Button                            | Included  |
| Volt Free Contacts                                | 11  |
| <b>GENERAL</b>                                    |   |
| Operating Temperature                             | 0°C to 40°C   |
| Operating Humidity                                | 10-90% non-condensing                                     |
| Acoustic Noise                                    | <64dB @ 1 metre   |
| IP Rating   | IP20  |
| <b>CLEARANCES (Minimum)</b>                       |   |
| Front   | 600mm   |
| Rear  | 300mm   |
| Above   | 700mm   |
| Left/Right Sides                                  | 600mm   |

### Catalogue Numbers

| System Mode     | Part Number | Weight (kg) |
|-----------------|-------------|-------------|
| Static Inverter | VES 340 DSP | 197         |