

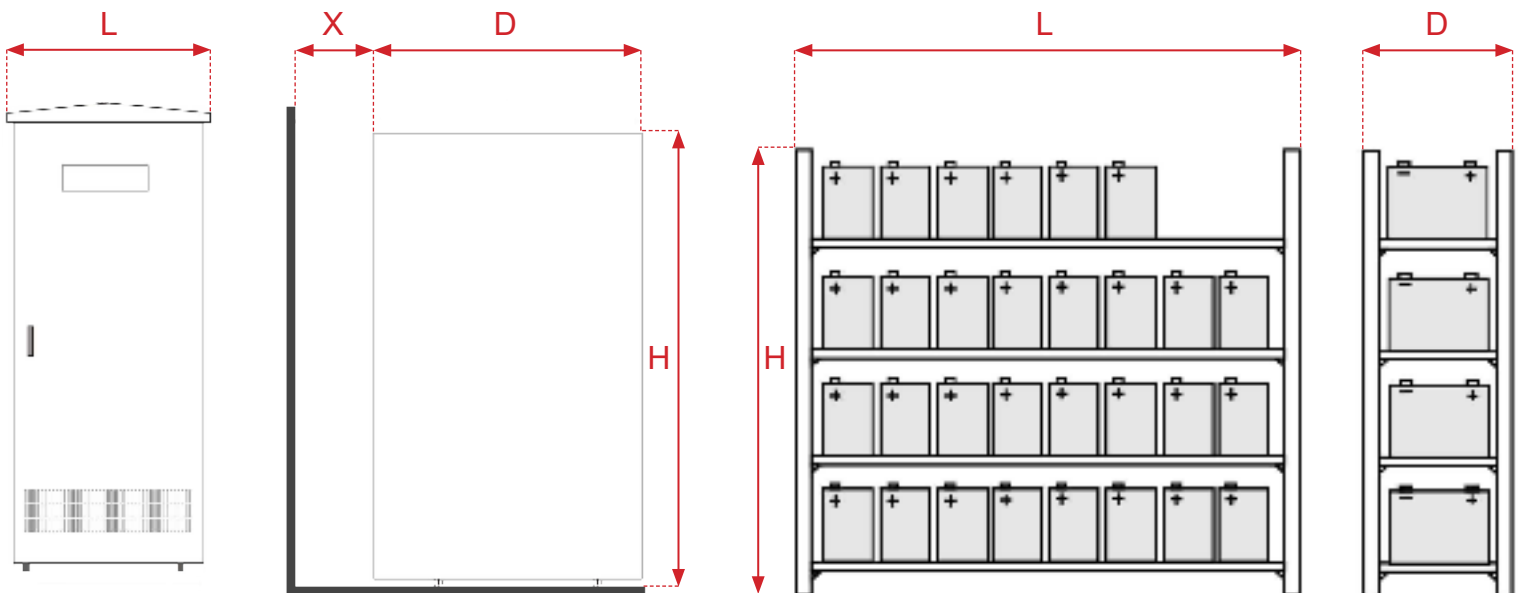
VES 3100 DSP 100kVA Power Cabinet



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 100kVA, 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

- 100kVA 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 3100 DSP

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

Cladded Battery Rack Dimensions

L = Length (mm's)	2850
D = Depth (mm's)	875
H = Height (mm's)	2000

Static Inverter Weight

Net weight (kg's)	232
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Battery Rack Weight

Net weight (kg's)	5134
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MODEL	VES 3100 DSP	
Power rating kVA / kW	100 / 90	
INPUT		
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%	
OUTPUT		
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	C25	
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)	
BATTERY		
Battery Qty & Type	240 x PSLIFR-135-12 VRLA	
Internal	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	
LIGHTING CONTROL INTERFACE		
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	
GENERAL		
Operating Temperature	0°C to 40°C	
Operating Humidity	10-90% non-condensing	
Acoustic Noise	<68dB @ 1 metre	
IP Rating	IP20	
CLEARANCES (Minimum)		
Front	600mm	
Rear	300mm	
Above	700mm	
Left/Right Sides	600mm	
Catalogue Numbers		
System Mode	Part Number	Weight (kg)
Static Inverter	VES 3100 DSP	232