

EMERGENCY LIGHTING - ELSX MODULAR STATIC INVERTER UNIT



3 Phase < 125kVA

BENEFITS

Performance

- Pure sine wave output
- Higher lighting levels when compared to self contained emergency lighting
- Most standard AC luminaires can be used, no need for modification. It should be ensured that all fittings selected for emergency lighting comply with EN60598-2-22, therefore must not be 2 pin, have glow starters or be lamps with built in starters
- More energy efficient than self contained lighting offering cost savings year on year
- Best in class electrical performance for 3 phase Emergency Lighting requirements

Installation

- Removable top entry gland plate
- Integral 100mm plinth (excluding distribution) to allow good manouverability
- Allows load to be distributed across 3 phases - smaller cabling required
- Front access enclosure keeps footprint to a minimum

Operational

- Central point for maintenance and testing therefore less disruptive to daily working routines
- Hot swappable modules reducing Mean Time To Repair (MTTR)
- Comprehensive and easy to use diagnostic display

KEY FEATURES

- Pure sine wave output
- Modular hot swappable
- Fully compliant with BS EN 50171:2001
- High efficiency = High energy savings
- Battery deep discharge protection
- Full LCD and LED display
- Enclosure protection to IP21 as standard (options up to IP54 are available)

The ELSX range of Static Inverter Units offer a reliable, proven and space saving solution for Emergency Lighting requirements.

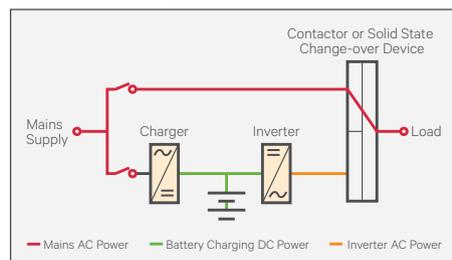
The ELSX is a modular system utilising hot swappable technology ensuring that repair time on your life safety system is kept to a minimum.

The ELSX is compact, easy to maintain and fully compliant to BS EN50171:2001. The ELSX is robust and designed to meet the most demanding on site requirements.

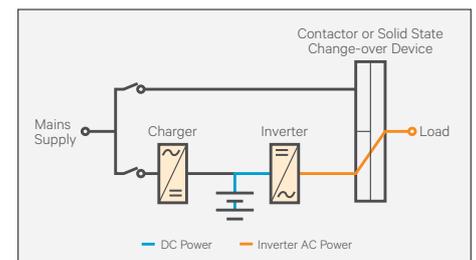
System Operation

Active Standby

Mains Healthy



Mains Failed



Applications

- Commercial
- Retail
- Hotels
- Sports and Leisure Facilities
- Cinemas
- Museums
- Airports
- Hospitals
- Manufacturing



SYSTEM INPUT

Voltage: 400VAC 3ph

Voltage range: +/- 10%

Frequency: +/- 15%

SYSTEM OUTPUT

Voltage: 400V 3-phase OR 230V single phase

Voltage regulation: +/- 1%, static balanced load

Output frequency: 50Hz

Frequency regulation: +/- 2% synchronised
+/- 0.2% free-running

Wave form: Sine wave

DC / AC Efficiency: >95%

Load power factor: 0.5 lag - 0.5 lead

Overload: 120% continuous

Operating temperature: 0 to 40°C (inverter only)

LCD DIGITAL METER (READINGS)

Mains input - voltage and frequency

Inverter - AC voltage / current / kVA / % load / frequency

DC volts

DC discharge current

Charge current

Maintained output - AC voltage / frequency

ALARMS

Mains Fail

Charge fail

Inverter fail

Boost charge (NiCd batteries only)

Battery disconnected

DC over voltage

Battery test - 10 minute / rated standby test

Battery fail

Cooling fan fail

Inverter overload

Inverter over temperature

Short circuit

Battery low volts

FULLY COMPLIANT WITH THE FOLLOWING STANDARDS

Emergency Lighting EN 50171:2001

Safety EN 62040-1

EMC Emissions EN 61000-6-3

EMC Immunity EN 61000-6-2

Technical Data**Enclosure**

- Zintec Steel - RAL 7035
- Key lockable doors
- Front access enclosure for ease of maintenance
- Top cable entry with removable gland plate
- IP21 for standard enclosures

Battery Charger

- Microprocessor controlled, power factor corrected
- Temperature compensated
- Constant voltage, current limited rectifier
- Protection against reverse battery polarity
- Protection against battery over voltage, input mains low and mains surges
- Low volts disconnect

Inverter

- Modular with hot swappable capability
- High frequency microprocessor controlled PWM IGBT inverter
- Pure sine wave output
- Galvanic isolation with ground neutral (when supplied with optional output transformer)

Load Circuit

- Single or multiple outputs can be offered as maintained, non maintained or a combination of both
- Solid state switching device

Remote Monitoring

- Volt free contacts for: Common Alarm, Static Inverter Fault, Battery Discharging, Low Battery Volts, Load on Inverter, Load on Bypass - contacts rated at 1A, 24V AC/DC

Datalogger

- 1024 historical records can be retrieved for reference and diagnosis

Display

- A 320 x 240 user friendly graphic display allowing the user to browse the parameters for input, output, load, batteries and current Static Inverter status