

Critical Healthcare Environments

General

Most large hospitals and medical centers are equipped with generators for emergency backup power and egress lighting. In the event of unusable voltage, a brownout, a complete power outage, or a gen-set test, the backup generator will supply adequate electrical power within the code-mandated 8 – 10 seconds. In most locations within a healthcare facility, this

time delay is completely acceptable. But critical care suites cannot remain in darkness for any length of time.

To help alleviate the power outages in critical care environments, individual battery wall-packs and/or emergency ballasts are sometimes installed in these areas. However, for a variety

of reasons, these types of emergency lighting are not the most cost-efficient solutions. The mandatory, code-compliant, monthly testing and data recording of all the individual wall-packs and emergency ballasts is very time consuming. In addition, monthly visits by maintenance personnel can lead to unintentional contamination of the critical care environment.

The FastLITE, UltraLITE, and eLITE ELE

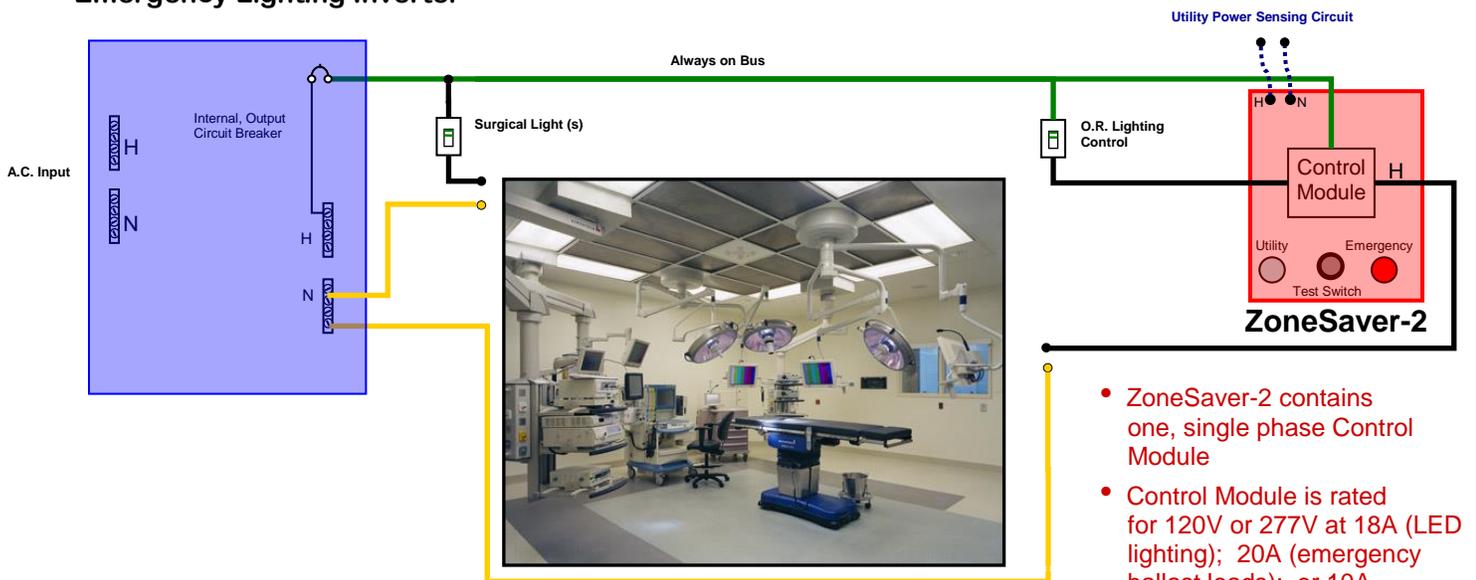
By contrast, the [FastLITE](#), [UltraLITE](#), and [eLITE ELE](#) inverter models are the better solutions for providing backup emergency lighting and power to critical care environments. Inverters listed to UL 924 Auxiliary Lighting and Power Equipment can be supplied with

10 to 30 minutes of battery backup and will eliminate the 8 – 10 second delay resulting from generator synchronization and transfer. Also, each model is capable of replacing the egress lighting completely with a full 90 minutes (Listed UL 924 Emergency Lighting Equipment)

of battery backup for each critical care application. All inverter testing, recordkeeping, and maintenance are performed from a centralized location, away from the critical care environments.

Operating Room - Emergency Room - Cath Lab - Plastic Surgery - Delivery Room

Emergency Lighting Inverter



- ZoneSaver-2 contains one, single phase Control Module
- Control Module is rated for 120V or 277V at 18A (LED lighting); 20A (emergency ballast loads); or 10A (incandescent loads)
- Ground connections not shown

Summary

When combined with medical-grade surgical lights (UL 60601 listed) and the inverter's optional ZoneSaver-2, the FastLITE, UltraLITE, and eLITE ELE models provide the optimum solutions for critical care emergency lighting applications in operating rooms, cardiac cath labs, delivery rooms, etc.

For example, once the surgical light has been turned "on", in the event of a power outage this light stays "on" (no 8 – 10 second delay).

In comparison, the O.R. lights may be switched "on" or "off" as desired, but even if the switch is left in the "off" position, the lights will

"automatically turn on" in the event of a power outage.

Required monthly testing is automatic and remote. Data recording and test results may be sent via BACnet, Ethernet or MODBUS, thus eliminating unnecessary maintenance efforts and any related contamination of the critical care environments.