

Backup Power Solutions for: Emergency Lighting Applications



Overview

Underwriter's Lab 924 standard has long applied to emergency lighting and power equipment, intended for connection to branch circuits of 600 volts or less. Such equipment shall automatically supply illumination or power or both to critical areas and equipment in the event of failure of the normal electrical supply, in accordance with Article 700 or 701 of the National Electrical Code, NFPA 70, the Life Safety Code, NFPA 101, the Fire Code, NFPA 1, the International Building Code, IBC, and the International Fire Code, IFC.

Compliant building lighting must provide at least 90 minutes (UL924) of battery powered illumination, even under extreme conditions such as electrical surges and full loads, to ensure building occupants are provided time to evacuate. Emergency lighting shall engage automatically and immediately after a primary power failure. In applications with an appropriate utility backup, such as a generator, UL924A may qualify and shorten the UPS/inverter battery time to 30 minutes or less.



It should be noted that UL924 and UL924A are nationwide standards and that differing state/local codes have jurisdiction.



Vertiv offers several alternatives to address almost any facility's back-up power needs. Below are the Liebert® UL compliant UPS systems for emergency lighting and power. Please refer to the appropriate UPS information page for details.

UL924 Compliant Liebert UPS Systems



UPS PRODUCT NAME	PHASE	COMPLIANT CAPACITY	OUTPUT VOLTAGE	UL STANDARDS
 Liebert® EXM UPS	Three Phase	10, 15, 20, 30, 40, 60 kVA	208/120V	UL924, UL924A, UL1778, CSA 22.2 141
 Liebert® EXM UPS	Three Phase	30, 40, 50, 75, 100 kVA	480/277V	UL924, UL924A, UL1778, CSA 22.2 141