



AL1024ULM

Overview

AL1024ULM multi-output access control power supply/charger is specifically designed for use with access control systems and accessories. This unit converts a 115VAC, 60Hz input into five (5) individually protected Class 2 Rated power-limited 24VDC outputs. Each output will route power to a variety of access control hardware devices including Mag Locks, Electric Strikes, Magnetic Door Holders, etc. These outputs will operate in both Fail-Safe and Fail-Secure modes. Controlled trigger input is achieved through normally open (N.O.) or normally closed (N.C.) supervised input or the polarity reversal from an FACP (Fire Alarm Control Panel). A form "C" dry output relay enables HVAC Shut-down, Elevator Recall or it may be used to trigger auxiliary devices.

Specifications**Input:**

- Input 115VAC, 60Hz, 4.2 amp.
- Input fuse rated @ 3.5 amp/250V.
- Fire Alarm Panel or Access Control System trigger inputs. N.O. or N.C. supervised trigger input and polarity reversal trigger input.

Output:

- 24VDC outputs.
- 10 amp supply current.
- Five (5) PTC protected Class 2 Rated power-limited outputs, rated @ 2 amp.
- Output relay energizes when unit is triggered (form "C" contact rated 1 amp @ 28VDC).
- Filtered and electronically regulated output.
- Short circuit and thermal overload protection.

Battery Backup:

- Built-in charger for sealed lead acid or gel type batteries.
- Automatic switch over to stand-by battery when AC fails.
- Maximum charge current 0.7 amp.

Supervision:

- AC fail supervision (form "C" contacts).
 - Notification trigger is selectable for 30 seconds (factory set) or 6 hours.
- Low battery supervision (form "C" contacts).
- Battery presence supervision (form "C" contacts).
- Power fail supervision relay (form "C" contacts).

Visual Indicators:

- AC input and DC output LED indicators (power supply board).
- Red LEDs indicate condition of power outputs (multi-output board).
- Power and input trigger LEDs (multi-output board).

Electrical:

- Operating temperature: 0° C to 49° C ambient.
- 122.84 BTU/Hr.
- System AC input VA requirement: 483VA.

Mechanical:

- Enclosure Dimensions (H x W x D approx.): 15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm)
 - Accommodates up to two (2) 12VDC/12AH batteries.
- Product weight (approx.): 10.8 lbs. (4.90 kg).
- Shipping weight (approx.): 11.8 lbs. (5.35 kg).

Agency Approvals

UL 294 UL Listed for Access Control System Units.
UL 1481 UL Listed Standard for Safety for Fire Protective Signaling Systems.



CUL Listed - CSA Standard C22.2 No.205-M1983, Signal Equipment.



CSFM - California State Fire Marshal Approved.

Technical drawing of the top view of a rectangular plate. The plate has overall dimensions of 13.125 inches (333.0mm) by 10.625 inches (270.0mm). The three holes are arranged horizontally. The center-to-center distance between the first and second hole is 4.615 inches (117.22mm). The center-to-center distance between the second and third hole is 4.615 inches (117.22mm). The distance from the left edge of the plate to the center of the first hole is 1.5 inches (38.1mm). The distance from the right edge of the plate to the center of the third hole is 1.5 inches (38.1mm). The diameter of each hole is 1.75 inches (44.45mm). The drawing includes dimension lines and arrows indicating the measurements.

