AL1024ULMR
Multi-Output Power Supply/Charger

Rev. DSAL1024ULMR_05212015

AL1024ULMR

Overview

AL1024ULMR 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 Shutdown, 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: 0º C to 49º 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).

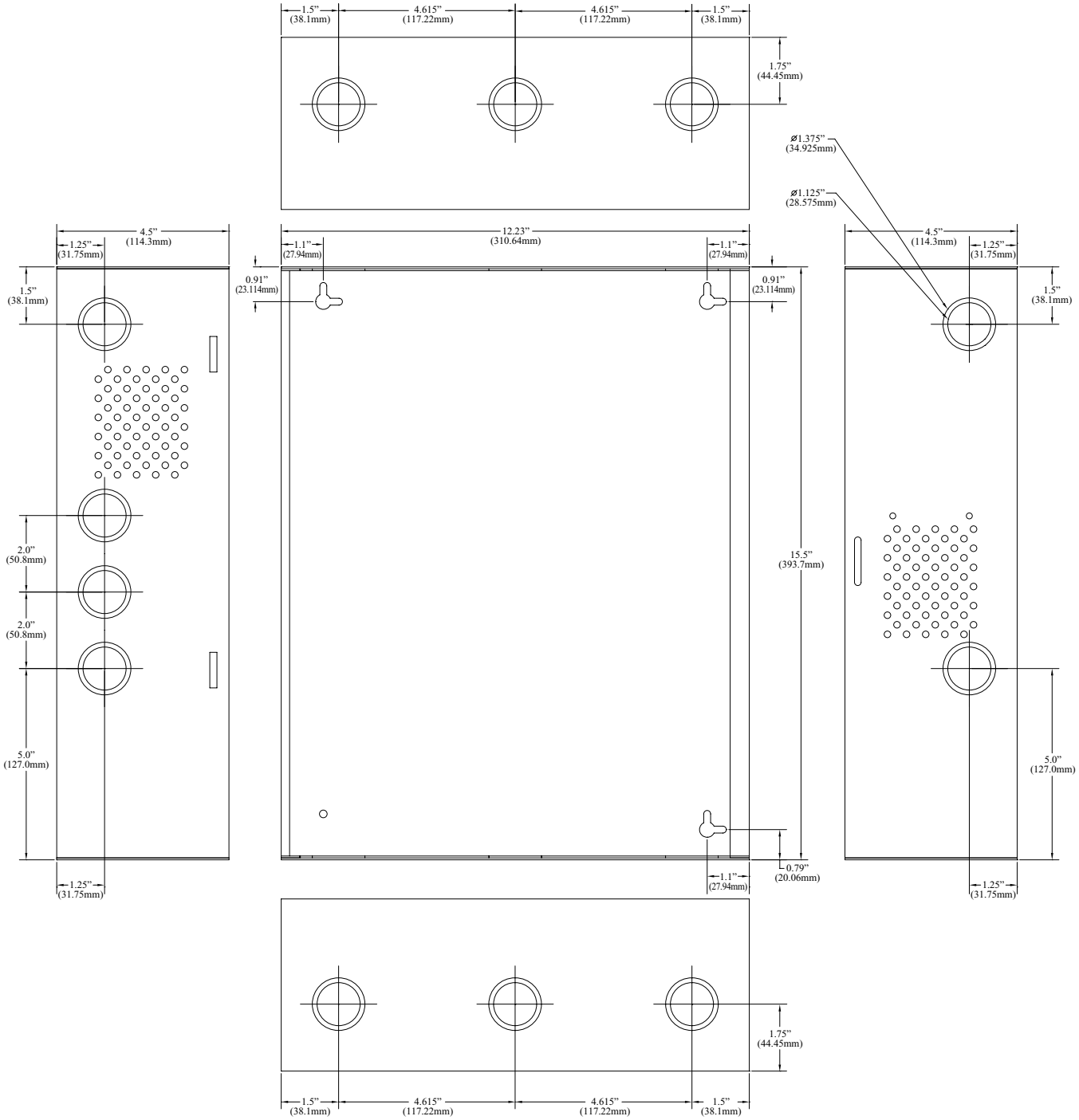
Agency Approvals

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.

Enclosure Dimensions *(H x W x D approximate)*:

15.5” x 12” x 4.5” (393.7mm x 304.8mm x 114.3mm)