Altronix®

Rev. 06292023

AL1024NKA8DQM

Networked Dual Voltage Access Power Controller with Power Supply/Charger

Ordering# AL1024NKA8DQM
Kit Contents: AL1024ULX with VR6 and LINQ8ACMCB UL Listed sub-assemblies

AL1024NKA8DQM

Altronix AL1024NKA8DQM sub-assembly kit converts a 115VAC 60Hz input into eight (8) PTC protected outputs. Outputs are individually selectable, providing 12VDC or 5VDC up to 6A and/or 24VDC up to 10A (240W total power) for access control panels, door locks, and ancillary devices. Power outputs can be converted to dry form "C" contacts. Outputs are activated by an open collector sink, normally open (NO), normally closed (NC) dry trigger input, or wet output from an Access Control System, Card Reader, Keypad, Push Button, PIR, etc. AL1024NKA8DQM will route power to a variety of access control hardware devices including Mag Locks, Electric Strikes, Magnetic Door Holders, etc. Outputs will operate in both Fail-Safe and/or Fail-Secure modes. The FACP Interface enables Emergency Egress, Alarm Monitoring, or may be used to trigger other auxiliary devices. The fire alarm disconnect feature is individually selectable for any or all of the eight (8) outputs. The spade connectors allow you to daisy chain power to multiple LINQ8ACM(CB) modules. This feature allows you to distribute the power over more outputs for larger systems. Built-in LINQ™ Network Power Management facilitates monitoring, reporting and control of power/diagnostics.

Key Features

- Unit provides 12VDC up to 6A and/or 24VDC up to 10A (240W total power)
- Short circuit and overvoltage protection
- Supervision
  - AC Fail
  - Battery Fail and Battery Presence
- Fire alarm disconnect
- Bi-colored LEDs provide visual verification of voltage on each output
- Stackable sub-assemblies save valuable space
- Built-in charger for sealed lead acid or gel type batteries
- Instantaneous transfer to stand-by batteries
- Eight (8) independently controlled outputs
- Eight (8) auxiliary power outputs (unswitched)
- Filtered and electronically regulated outputs
- Fire Alarm disconnect (latching or non-latching) is individually selectable for any or all of the eight (8) outputs
- Built-in LINQ technology facilitates monitoring, reporting, and control of power supply/charger over the network
- Reports diagnostics via Email and Windows Dashboard Alert notifications, greatly reducing system downtime and eliminating unnecessary service calls
- Kit contents are UL Listed sub-assemblies
- CE European Conformity

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Specifications

Power Supply (AL1024ULXB2):

Input

Voltage	115VAC 60Hz, 4.2A max
Input Fuse	5A/250V

Outputs

Voltage	24VDC
Current	10A @ 24VDC continuous max.
Other	Overvoltage protection. Filtered and regulated

Battery Charging

Capacity	12AH/12VDC (2 within enclosure) 40AH/65AH (requires separate enclosure)
Type	Sealed lead acid or gel type
Failover	Upon AC loss, instantaneous

Batteries are sold separately

Supervision

AC Failure	Form "C" contacts
Battery	Form "C" contacts

Indicators (LED)

Input	115VAC is present
DC Output	Powered
Battery	Discharged or not connected

Network Access Power Controller (LINQ8ACMCB):

Input

Voltage	24VDC from AL1024ULXB2 and 12VDC from VR6
Input PTCs	9A

Outputs

Any of the eight (8) PTC protected power outputs are selectable to follow power Input 1 or Input 2

Individual outputs may be set to OFF position for servicing

Output PTCs: 2.5A

Programming Features:

Eight (8) Programmable Outputs:

- Fail-safe, fail-secure or auxiliary outputs
- Input controlled or manually controlled through software
- High (over) and low (under) voltage and current monitoring by output
- Multiple outputs may be programmed to be triggered by a single input
- Battery back-up by output

Eight (8) Programmable Trigger Inputs:

- Normally open (NO), Normally closed (NC) or Open collector sink inputs
- Wet Input (5VDC - 24VDC) with 10k resistor
- Any combination of the above

Other Programmable Trigger Inputs:

- Monitor power supply(ies) input for voltage and current limits (high/low)
- Input and output current calibration, Programmable timer events
- Programmable user levels, Enable or disable alerts by type
- Programmable alert reporting delay

Indicators (LED)

Green AC LED:	indicates AC trouble condition
Green BAT LED:	indicates battery trouble condition
Green FACP LED:	indicates FACP disconnect is triggered
Blue Heartbeat LED:	indicates network connection
Individual Output Red LEDs:	indicate outputs are triggered
Individual Voltage LEDs:	indicate 12VDC (Green) or 24VDC (Red)

Voltage Regulator (VR6):

Input

Voltage	24VDC from AL1024ULXB2

Output

Voltage	12VDC
Current	6A continuous
Other	Surge suppression

Indicators (LED)

Input	24VDC is present
Output	Powered

Agency Listings

AL1024ULXB2

Access Control	UL294
Burglar Alarm	UL603
Fire Alarm	UL1481
Signal Equipment	CSA C22.2 No.205-M1983

VR6

Access Control	UL294, ULC-S319
CE	European Conformity

LINQ8ACM

Access Control	UL294
CE	European Conformity

Physical and Environmental

Dimensions (H x W x D)

Enclosure: 15.5" x 12.23" x 4.5" (393.7mm x 310.6mm x 114.3mm)

Shipping: 16.5" x 13.5" x 6" (419.1mm x 342.9mm x 152.5mm)

Enclosure accommodates up to two (2) 12VDC/12AH batteries

Weight (approx.)

Product:	9.4 lb. (4.26 kg)
Shipping:	10.5 lb. (4.76 kg)

Temperature

Operating:	0ºC to 49ºC (32ºF to 120ºF)
Storage:	– 20ºC to 70ºC (– 4ºF to 158ºF)

Relative Humidity	20 to 85%, non-condensing
BTU/Hr. (approx.)	123 BTU/Hr.

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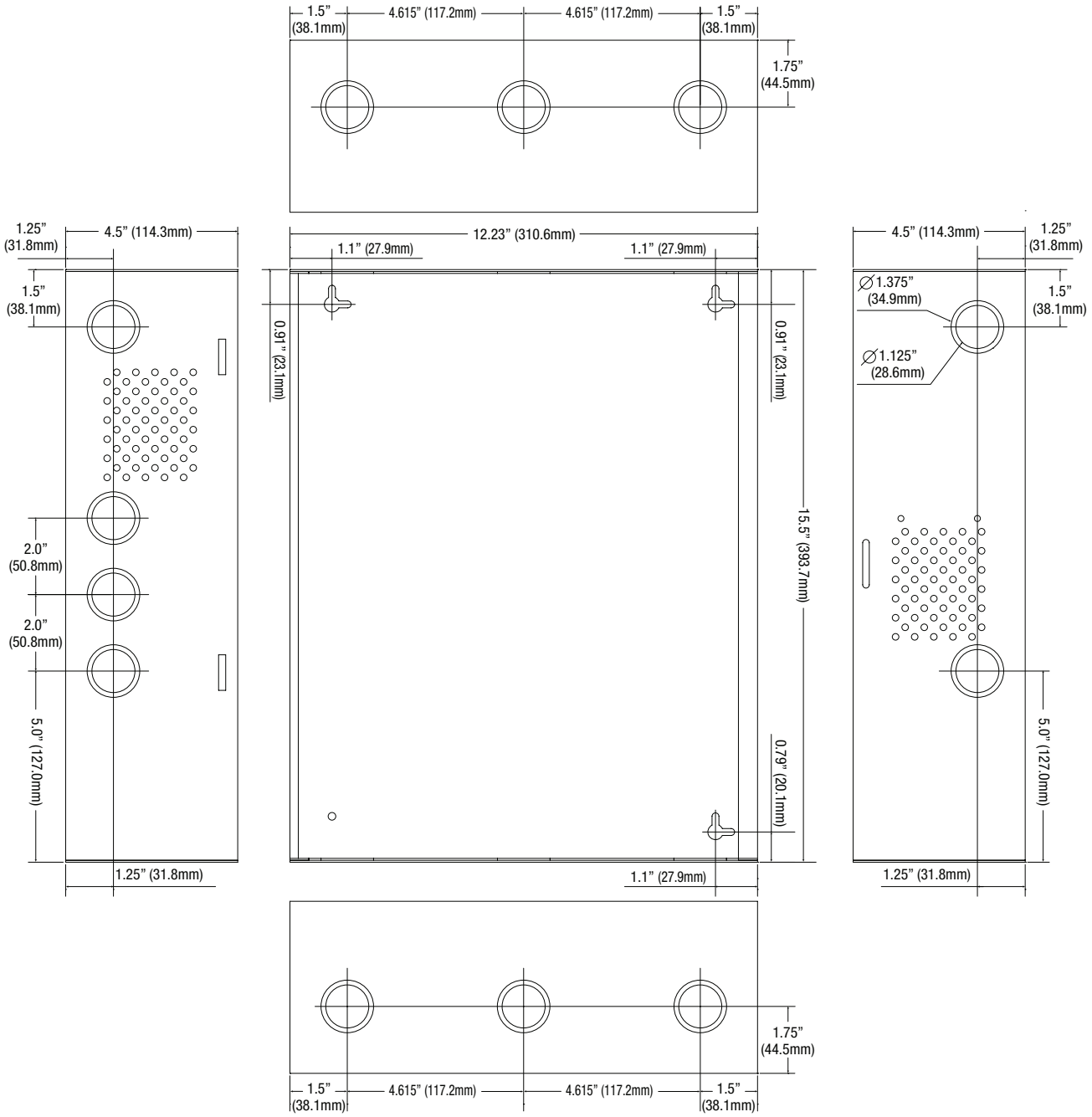
Dimensions and Drawing

Dimensions (H x W x D approximate)

15.5" x 12.23" x 4.5" (393.7mm x 310.6mm x 114.3mm)