Altronix®

Rev. 06292023

AL1024NK8QP

Networked Dual Voltage Power Supply/Charger

Ordering# AL1024NK8QP
Kit Contents: AL1024ULX with VR6 and LINQ8PD sub-assemblies

AL1024NK8QP

Altronix AL1024NK8QP sub-assembly kit converts a 115VAC 60Hz input into eight (8) fuse 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. Unit also offers a suite of features that includes overvoltage protection, AC fail supervision, low battery supervision and battery presence supervision. Networkable power distribution module facilitates monitoring, reporting, and control of the supervised DC power supply/charger over the network. It reports diagnostics via Email and Windows Dashboard Alert notifications, greatly reducing system downtime and eliminating unnecessary service calls.

Key Features

- Unit provides 12VDC or 5VDC 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
- Built-in charger for sealed lead acid or gel type batteries
- Instantaneous transfer to stand-by batteries
- Eight (8) fuse protected filtered and electronically regulated outputs
- Stackable sub-assemblies save valuable space
- Bi-colored LEDs provide visual verification of voltage on each output
- 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
- Two (2) network controlled Form “C” relays
- Includes management interface software (USB flash drive) and interface cables
- 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

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

Network Power Distribution Module (LINQ8PD):

Input

Voltage	24VDC from AL1024ULXB2 and 12VDC from VR6
Input Fuses	15A/32V

Outputs

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

Individual outputs may be set to OFF position for servicing

Output Ratings:

Output Fuses:	3A/32V

Status Monitoring

Power Supply output voltage and load, Voltage and load of each output, FACP trigger and reset status, Unit temperature (Celsius), Power Supply AC and Battery status, Battery health

Reporting:

Windows Dashboard Alert messages

E-mail notifications, Event Log tracks history

Indicators (LED)

Bat Local	Charging current status
FACP	Triggered / Released
Input	Input signal
Out1 - Out8	Output status

Agency Listings

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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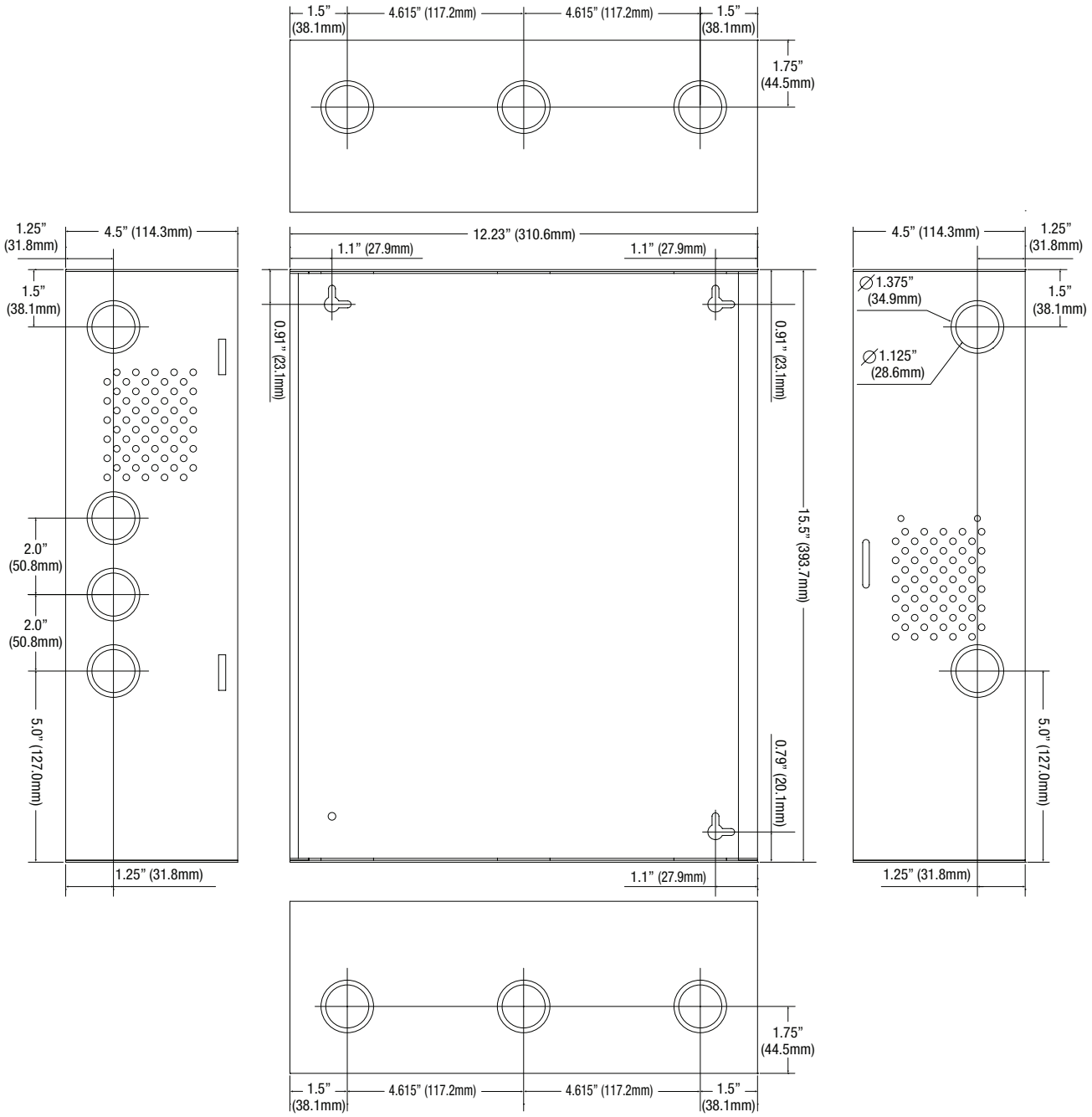
Dimensions and Drawing

Dimensions (H x W x D approximate)

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