Altronix®

Rev. 06292023

AL1024NK1

Dual Output Power Supply/Charger Kit

Ordering# AL1024NK1
Kit Contents: AL1024ULXB2 with VR6 UL Listed sub-assembly

AL1024NK1

Altronix AL1024NK1 dual output power supply/charger kit converts a 115VAC, 60Hz input into one (1) 5VDC or 12VDC selectable output at up to 6A supply current and one (1) 24VDC output. It also offers a suite of features that includes overvoltage protection, AC fail supervision, low battery supervision and battery presence supervision.

Key Features

- Reduces the cost of adding an additonal power supply to achieve 24VDC and 12VDC or 5VDC simultaneously
- 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
- Short circuit and overload protection
- AC input and DC output indicators
- Kit contents are UL Listed sub-assemblies
- CE European Conformity
- Lifetime Warranty

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Specifications

Power Supply (AL1024ULXB2):

Input

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

Outputs

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

Battery Charging

Capacity	12AH/7VDC (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

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

Physical and Environmental

Dimensions (H x W x D)

Enclosure:
13" x 12.5" x 3.25" (330.2mm x 317.5mm x 82.6mm)
Shipping:
15" x 13.875" x 4.75" (381mm x 352.4mm x 120.6mm)
Enclosure accommodates up to two (2) 12VDC/7AH batteries

Weight (approx.)

Product:	6.9 lb. (3.13 kg)
Shipping:	7.8 lb. (3.54 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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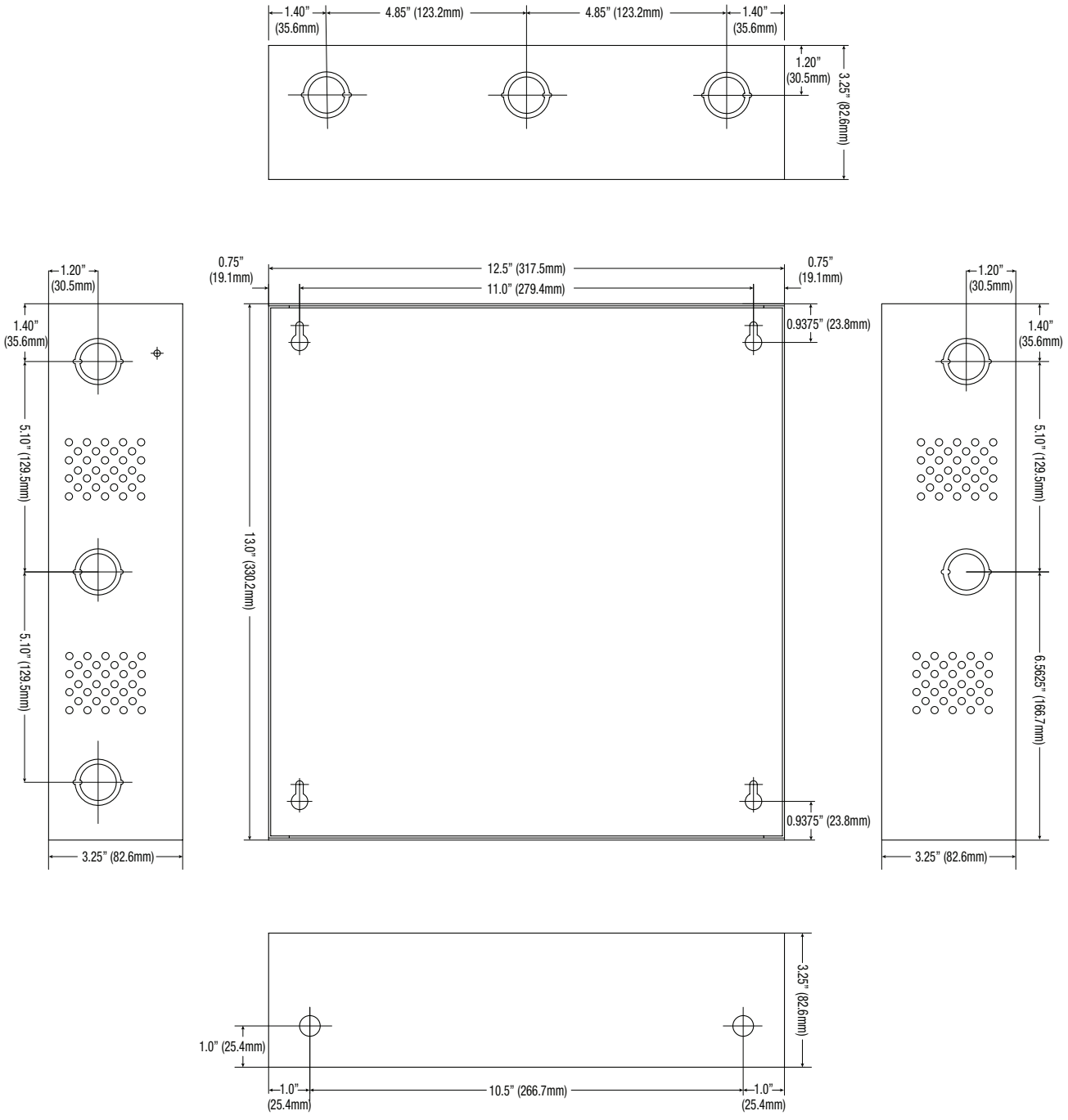
Dimensions and Drawing

Dimensions (H x W x D approximate)

13” x 12.5” x 3.25” (330.2mm x 317.5mm x 82.6mm)