

Tango8AQ & Tango8AQCB

PoE Driven Power Supply/Chargers with Network Access Power Controllers



Altronix Tango8AQ(CB) PoE Driven Power Supply with Access Power Controller converts an IEEE802.3bt (4PPoE) input into eight (8) regulated 24VDC and/or 12VDC outputs up to 65W. It eliminates the need for a high voltage inside of an enclosure. Tango8A is designed to support a single 12VDC LiFePO₄ (Lithium Iron Phosphate) battery for 12VDC and 24VDC backup. Built-in LINQ™ Network Power Management facilitates monitoring, reporting and control of power/diagnostics.



Tango8AQ

Batteries are not included

Key Features

- Utilizes Hi-PoE (802.3bt) to simultaneously deliver 12VDC & 24VDC for powering access control and security devices
- Built-in Lithium Iron Phosphate (LiFePO₄) battery charger for optimized power backup
- Operates with Altronix NetWay Midspans such as NetWay8BT
- Can be installed by any low voltage contractor
- Eight (8) independently controlled outputs
- Any of the eight (8) outputs are selectable for 12VDC or 24VDC
- Eight (8) auxiliary power outputs (unswitched)
- LINQ technology facilitates monitoring, reporting, and control of one (1) or two (2) supervised DC power supply/chargers over the network
- Report diagnostics via Email and Windows Dashboard Alert notifications
- Supervision:
 - AC Fail
 - Battery Fail and Battery Presence
- Fire Alarm disconnect (latching or non-latching) is individually selectable for any or all of the eight (8) outputs
- Alarm output relay indicates that FACP input is triggered
- Lifetime Warranty

Accessories (order separately)



NetWay8BT



NetWay1BT – 802.3bt (4PPoE) Midspan/Injector

- Single port midspan/injector delivers up to 90W max

NetWay4BT – 802.3bt Midspan/Injector

- 4-Port midspan/injector delivers up to 90W per port (480W max)

NetWay8BT – 802.3bt Midspan/Injector

- 8-Port midspan/injector delivers up to 90W per port (480W max)

Lifetime Warranty

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Specifications

Tango1B PoE Driven Power Supply/Charger:

Ethernet Input

802.3bt PoE up to 90W (or 802.3at up to 30W or 802.3af up to 15W)

Power Output (when using 802.3bt 90W)

12VDC up to 5.4A (65W) and/or 24VDC up to 2.7A (65W)

Combined output not to exceed 65W

When charging batteries:

12VDC up to 4.6A (55W) and/or 24VDC up to 2.3A (55W)

Combined output not to exceed 55W

Ethernet Output

Pass-through Ethernet Port (data only)

Battery Charging

Capacity One (1) LiFePO₄ battery within enclosure

Type LiFePO₄ (lithium iron phosphate)

Fallover Upon AC loss, instantaneous

Unique technology allows for single battery to backup

12VDC and/or 24VDC systems

Batteries are sold separately

Supervision

Loss of PoE Input

Battery Supervision

Indicators (LED)

Input Indicates input voltage is present

Output Indicates normal operating condition

PoE Type PoE Class Indicator

Supervision PoE Fail or BAT Fail

LINQ8ACM/LINQ8ACMCB

Network Access Power Controller:

Input

12VDC and 24VDC from Tango1B, factory wired

Current Consumption: 0.6A @ 12V, 0.3A @ 24V with all relays energized

Input Ratings:

LINQ8ACM Input Fuses: 15/32A

LINQ8ACMCB Input PTCs: 9A

Outputs

Tango8AQ:

Fuse protected outputs rated @ 2.5A per output, non power-limited. Total output 20A max.

Tango8AQCB:

PTC protected outputs rated @ 2A per output,

Class 2 power-limited. Total output 16A max.

Do not exceed the individual power supply ratings

Any of the eight (8) fuse/PTC protected power outputs are selectable 12 or 24VDC

Individual outputs may be set to OFF position for servicing

Output Ratings:

Tango8AQ Output Fuses: 3A/32V

Tango8AQCB Output PTCs: 2.5A

Total output current is determined by the power supply(ies), not to exceed a maximum of 10A for each input

LINQ8ACM/LINQ8ACMCB

Network Access Power Controller (cont'd):

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

Flashing Blue Heartbeat LED: indicates network connection

Individual OUT1 - OUT8 Red LEDs: indicate outputs are triggered

Individual Voltage LEDs: indicate 12VDC (Green) or 24VDC (Red)

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)

Weight (approx.)

Product: 9.7 lb. (4.08 kg)

Shipping: 11.0 lb. (4.67 kg)

Temperature

Operating: 0°C to 49°C (32°F to 120°F)

Storage: - 20°C to 70°C (- 4°F to 158°F)

Relative Humidity

20 to 85%, non-condensing

BTU/Hr. (approx.)

54 BTU/Hr.

Lifetime Warranty

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Tango8A & Tango8ACB

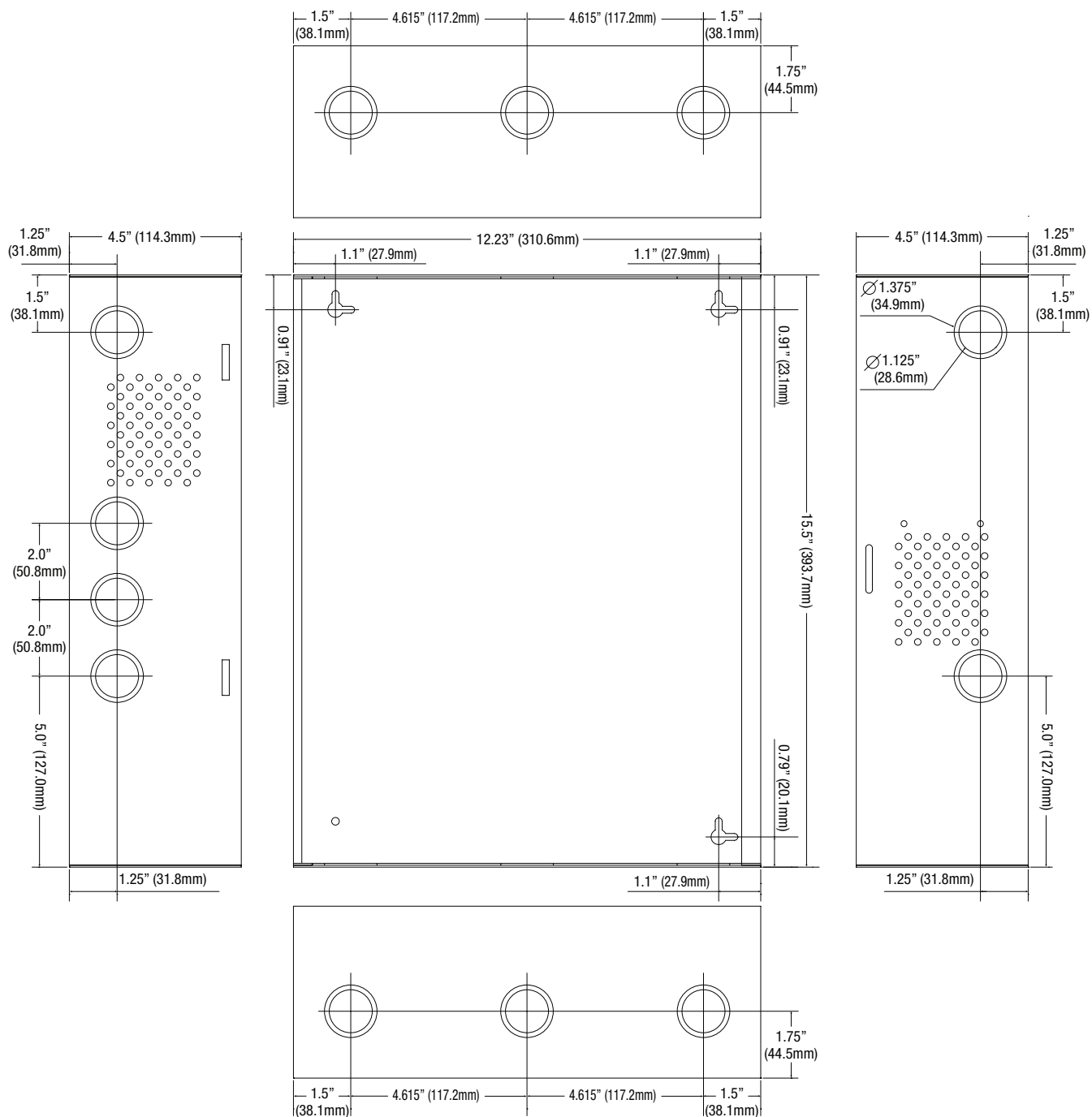
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Dimensions and Drawing

Dimensions (H x W x D approximate)

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



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