

Tango8AP & Tango8APCB

PoE Driven Multi-Output Power Supply/Chargers With Access Power Controllers



Altronix Tango8AP(CB) PoE Driven Multi-Output Power Supply/Charger With Access Power Controller converts an IEEE802.3bt PoE input into eight (8) regulated 24VDC and/or 12VDC outputs and eight (8) protected 24VDC and/or 12VDC outputs up to 65W. It eliminates the need for a high voltage inside of an enclosure. Tango8AP(CB) is designed to support a single 12VDC LiFePO₄ (Lithium Iron Phosphate) battery for 12VDC and 24VDC backup.



Tango8AP

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
- Eight (8) auxiliary power outputs (unswitched)
- 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
- Eight (8) additional fuse or PTC protected power outputs
- Any of the sixteen (16) outputs are selectable for 12VDC or 24VDC
- Individual outputs may be set to OFF position for servicing
- Supervision:
 - AC Fail
 - Battery Fail and Battery Presence
- 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

Tango8AP & Tango8APCB

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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)

Failover 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

PDS8/PDS8CB Power Distribution Module:

Inputs:

12VDC and 24VDC from Tango1B, factory wired

PDS8 Input Fuse Rating 10A/32A

PDS8CB Input PTC Rating 9A

Outputs

Tango8AP: Fuse protected outputs rated @ 3A per output, non power-limited. Total output 20A max.

Tango8APCB: 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) power outputs are selectable for 12VDC or 24VDC

Individual outputs may be set to OFF position for servicing

Indicators (LED)

DC Output Individual voltage LEDs indicate 12VDC (Green) or 24VDC (Green and Red)

ACMS8/ACMS8CB Access Power Controller:

Inputs

12VDC and 24VDC from Tango1B, factory wired

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

ACMS8 Input Fuse Rating 15A/32A

ACMS8CB Input PTC Rating 9A

Trigger Inputs

Eight (8) individually controlled trigger inputs:

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

Outputs

Tango8AP: Eight (8) Fuse protected outputs rated @ 2.5A per output, non power-limited. Total output 20A max.

Tango8APCB: Eight (8) PTC protected outputs rated @ 2A per output, Class 2 power-limited. Total output 16A max.

Do not exceed the individual power supply ratings

Eight (8) selectable 12VDC or 24VDC independently controlled outputs or eight (8) independently controlled Form "C" relay outputs:

- Fail-Safe and/or Fail-Secure power outputs
- Form "C" Relays. 28VAC or VDC @ 2.5A Rated
- Auxiliary power outputs (unswitched)
- Any combination of the above

Any of the eight (8) power outputs are selectable for 12VDC or 24VDC

Individual outputs may be set to OFF position for servicing

Output Ratings Fuses are rated 2.5A each, PTCs are rated at 2A

Fire Alarm Disconnect

Supervised Latching or non-latching, individually selectable for any or all of the eight (8) outputs

EOL 10K Resistor

Indicators (LED)

Red LEDs Outputs are triggered (relays energized)

Blue LED FACP disconnect is triggered

Individual voltage LEDs

Green: 12VDC

Red: 24VDC

Physical and Environmental

Dimensions (H x W x D)

Enclosure: 15.5" x 12" x 4.5" (393.7mm x 304.8mm 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 85% +/- 5%

BTU/Hr. (approx.) 54 BTU/Hr.

Lifetime Warranty

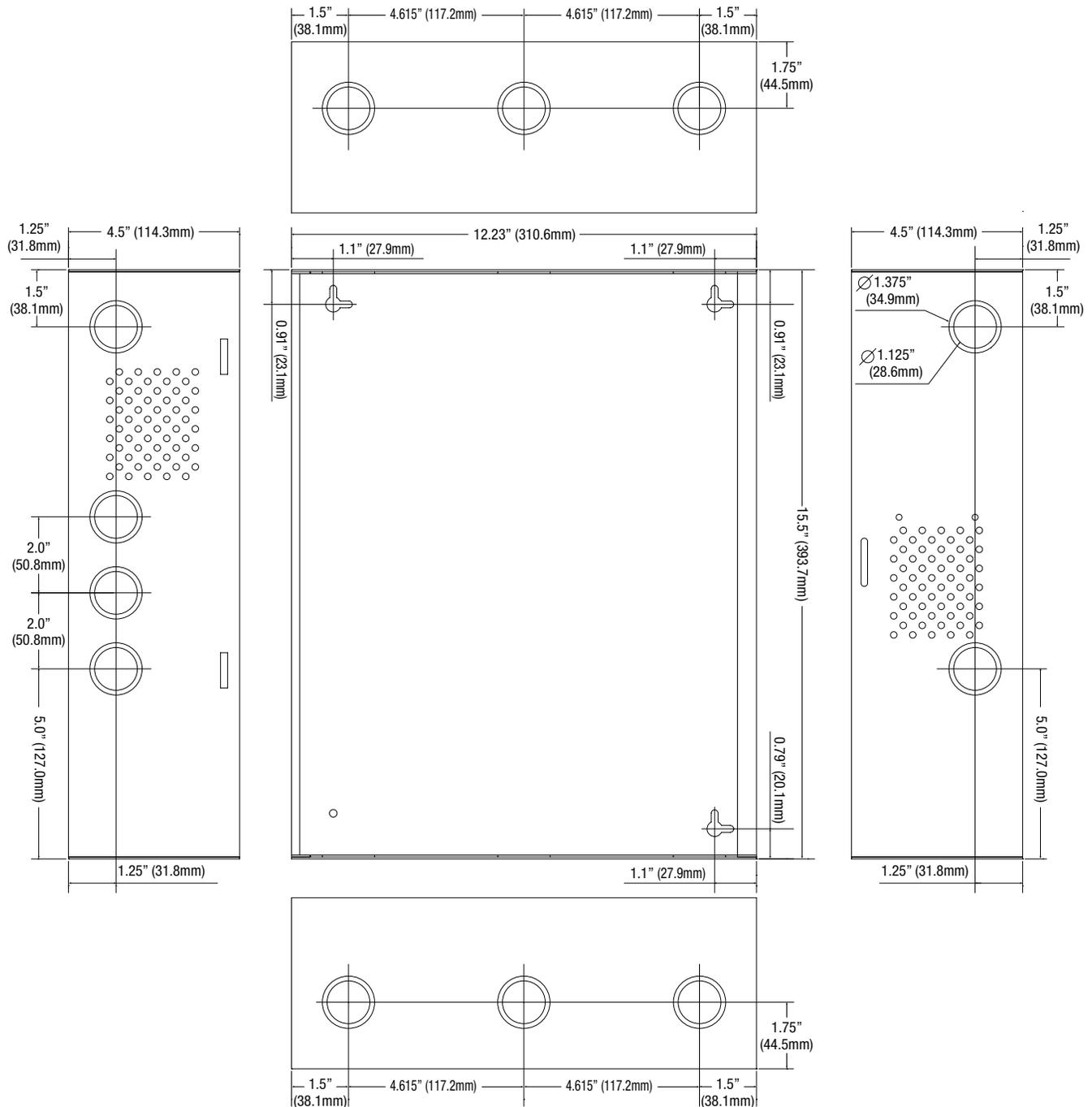
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Dimensions and Drawing

Dimensions (H x W x D approximate)

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



Lifetime Warranty

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