# Sub-Assemblies
## Installation Guide
### for Models:

| | |
|---|---|
| **ACM4** | Access Power Controller, 4 Fused Relay Outputs |
| **ACM4CB** | Access Power Controller, 4 PTC Relay Outputs |
| **ACM8** | Access Power Controller, 8 Fused Relay Outputs |
| **ACM8CB** | Access Power Controller, 8 PTC Relay Outputs |
| **MOM5** | Distribution Module, 5 PTC Class 2 Outputs |
| **PD4UL** | Power Distribution Module, 4 Fused Outputs |
| **PD4ULCB** | Power Distribution Module, 4 PTC Outputs |
| **PD8UL** | Power Distribution Module, 8 Fused Outputs |
| **PD8ULCB** | Power Distribution Module, 8 PTCd Outputs |
| **PD16W** | Power Distribution Module, 16 Fused Outputs |
| **PD16WCB** | Power Distribution Module, 16 PTC Outputs |
| **PDS8** | Dual Input Power Distribution Module, 8 Fused Outputs |
| **PDS8CB** | Dual Input Power Distribution Module, 8 PTC Outputs |
| **ACMS8** | Dual Input Access Power Controller, 8 Fused Outputs |
| **ACMS8CB** | Dual Input Access Power Controller, 8 PTC Outputs |
| **VR6** | Voltage Regulator. 24VDC input into 5VDC or 12VDC output |
| **LINQ2** | Network Communication Module |
| **LINQ8PD*** | Networkable Power Distribution Module, 8 Fused Outputs |
| **LINQ8PDCB*** | Networkable Power Distribution Module, 8 PTC Outputs |
| **LINQ8ACM** | Network Access Power Controller, 8 Fused Outputs |
| **LINQ8ACMCB** | Network Access Power Controller, 8 PTC Outputs |

*not evaluated by UL

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Rev. MS020119

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## Overview:

Altronix manufactures a wide variety of sub-assemblies suitable for many tasks in fire alarm, access control, network communications, surveillance, and other security applications.

## Installation Instructions:

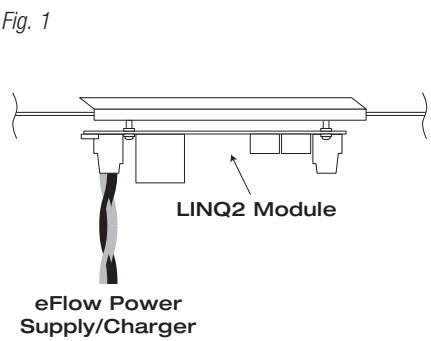
Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/NFPA 72/ANSI, and with all local codes and authorities having jurisdiction. Product is intended for indoor use only and should be installed by qualified personnel.

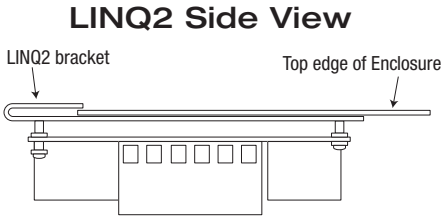
Refer to individual Sub-Assembly Installation Guides for mounting and connecting specific boards.

## Installing LINQ2 Board:

1. Using the mounting bracket mount the LINQ2 network module to the desired location on the enclosure. Secure the module by tightening the longer screw on the front edge of the mounting bracket *(Fig. 1, pg. 2)*.
2. Connect one end of the supplied interface cable(s) to the ports marked [Power Supply 1] and [Power Supply 2] on LINQ2 *(Fig. 1, pg. 2)*. When connecting to one power supply use the connector marked [Power Supply 1].
3. Connect the other end of the interface cable to the interface port of each eFlow power supply board.
4. Connect Ethernet cable (CAT5e or higher) to the RJ45 jack on the LINQ2 network module. For access control and fire alarm signalling applications the cable connection has to terminate is the same room. Refer to the LINQ2 Installation Manual.

*Fig. 1*



## Installation Instructions for Trove1:

1. Fasten spacers onto metal pems configuration (A) or configuration (B) of enclosure depending on the sub-assembly module *(Fig. 2, pg. 3)*.
2. Position sub-assembly module over corresponding spacers and secure module into enclosure with four (4) pan head screws supplied *(Fig. 2a, pg. 3)*.
3. Refer to the Trove1 Installation Guides and individual Sub-Assembly Installation Guides for the following models: ACM4(CB), LINQ2, LINQ8PD(CB), MOM5, PD4UL(CB), PD8UL(CB), PD16W(CB), PDS8(CB), ACMS8(CB), LINQ8ACM(CB), VR6 for further installation instructions.

## Sub-Assembly Position Chart for the Following Models:

| Sub-Assembly Module | Mounting Position | Mounting |
|---|---|---|
| ACM8(CB) | Top Left | (A)* |
| ACMS8(CB) | | |
| LINQ8ACM(CB) | | |
| LINQ2** | Top Edge | (C) |
| LINQ8PD(CB) | Bottom Left | (B) |
| ACM4(CB) | | |
| MOM5 | | |
| PD4UL(CB) | | |
| PD8UL(CB) | | |
| PD16W(CB) | | |
| PDS8(CB) | | |
| VR6 | | |

* Position (A) is usually reserved for Altronix power supplies, but can also be used for sub-assemblies (Fig. 2).

** LINQ2 can be installed when utilizing eFlow power supply/charger boards.

*Fig. 2*

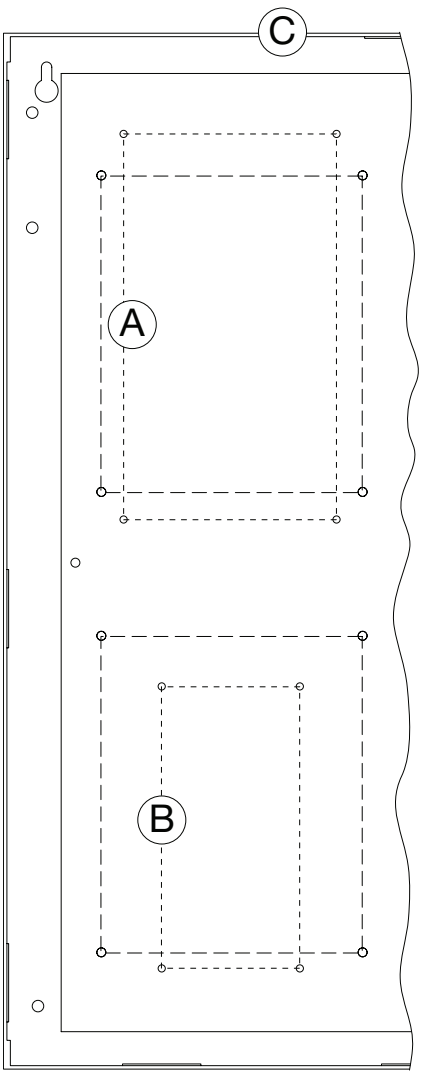
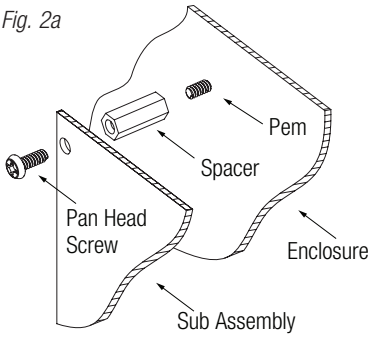



*Fig. 2a*

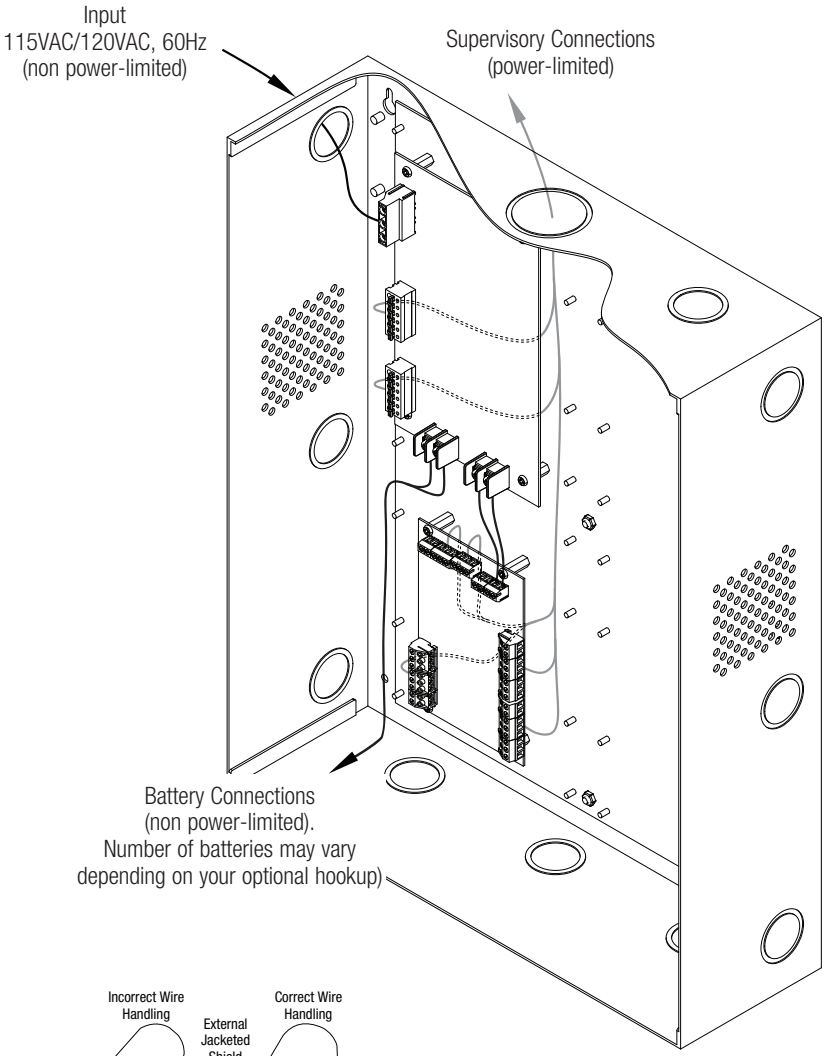


## NEC Power-Limited Wiring Requirements:

Power-limited and non power-limited circuit wiring must remain separated in the enclosure. All power-limited circuit wiring must remain at least 0.25" away from any non power-limited circuit wiring. Furthermore, all power-limited circuit wiring and non power-limited circuit wiring must enter and exit the enclosure through different conduits. One such example of this is shown below. Your specific application may require different conduit knockouts to be used. Any conduit knockouts may be used. For power-limited applications use of conduit is optional. All field wiring connections must be made employing suitable gauge CM or FPL jacketed wire (or equivalent substitute).

**Note:** Refer to wire handling drawing below for the proper way to install the CM or FPL jacketed wire *(Fig. 3a, pg. 4)*.

*Fig. 3*



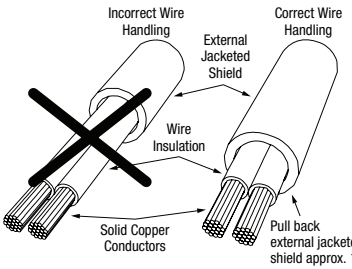




*Fig. 3a - Recommended jacketed wiring for power-limited connections*

## Installation Instructions for Trove2:

1. Fasten spacers onto metal pems configuration (A) or configuration (B) of enclosure depending on the sub-assembly module *(Fig. 4, pg. 5)*.
2. Position sub-assembly module over corresponding spacers and secure module into enclosure with four (4) pan head screws supplied *(Fig. 4a, pg. 5)*.
3. Refer to the Trove2 Installation Guides and individual Sub-Assembly Installation Guides for the following models: ACM4(CB), LINQ2, LINQ8PD(CB), MOM5, PD4UL(CB), PD8UL(CB), PD16W(CB), PDS8(CB), ACMS8(CB), LINQ8ACM(CB), VR6 for further installation instructions.

## Sub-Assembly Position Chart for the Following Models:

| Sub-Assembly Module | Mounting Position | Mounting |
|---|---|---|
| ACM8(CB) | First, Second, Third & Fourth on Left | (A)* |
| ACMS8(CB) | | |
| LINQ8ACM(CB) | | |
| LINQ2** | Top Edge | (C) |
| LINQ8PD(CB) | Second, Third & Fourth on Left | (B) |
| ACM4(CB) | | |
| MOM5 | | |
| PD4UL(CB) | | |
| PD8UL(CB) | | |
| PD16W(CB) | | |
| PDS8(CB) | | |
| VR6 | | |

* Top left position (A) is usually reserved for Altronix power supplies, but can also be used for sub-assemblies *(Fig. 4)*.

** LINQ2 can be installed when utilizing eFlow power supply/charger boards.

**Note:** TM2 (Mercury/Lenel) and TV2 (HID/VertX) Trove2 backplane models allow for additional sub-assembly mounting positions on the right side.

*Fig. 4*

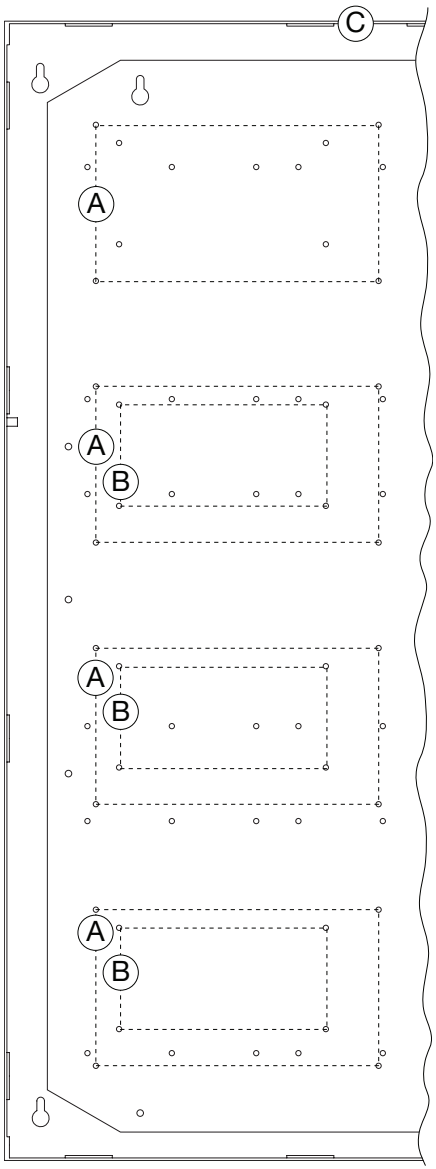
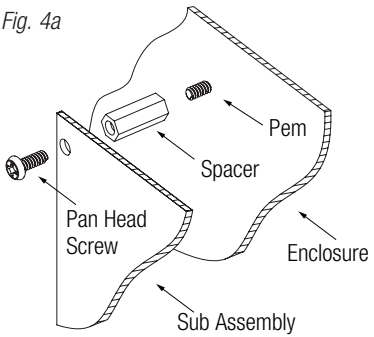



*Fig. 4a*

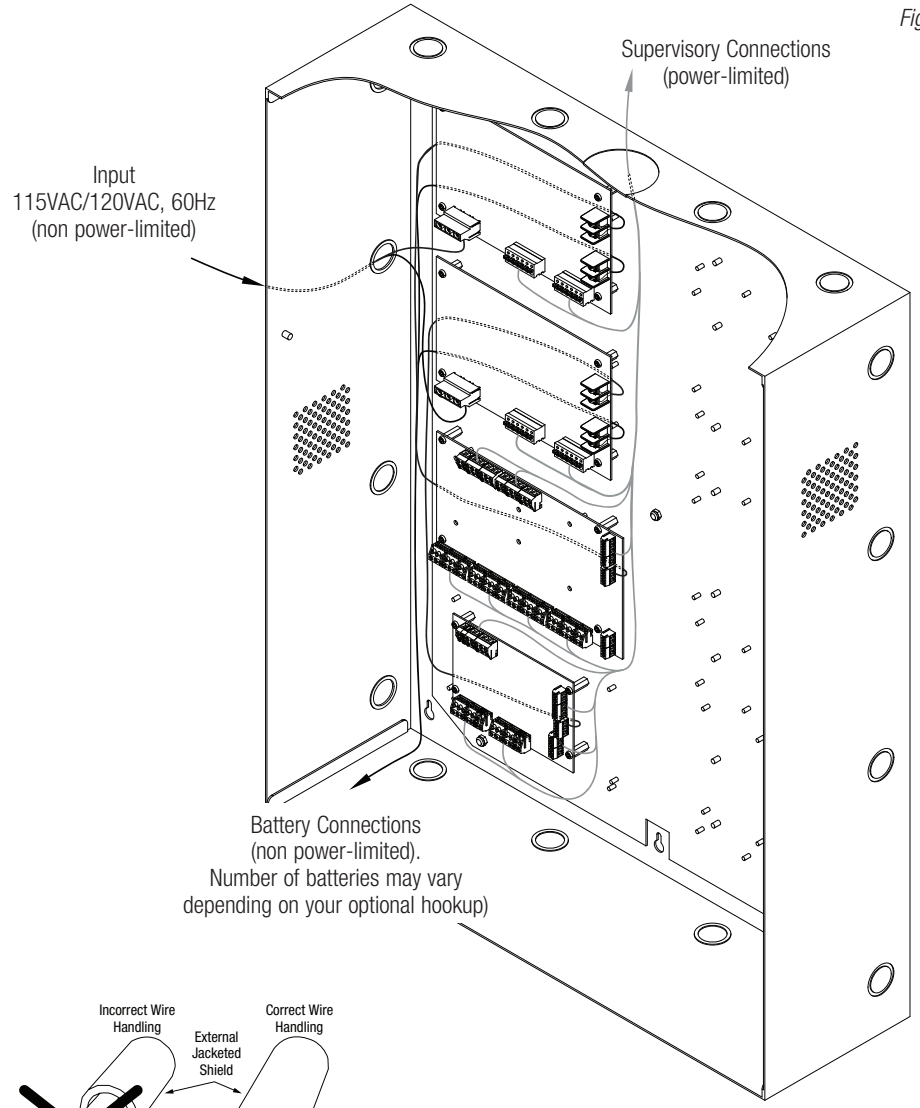


## NEC Power-Limited Wiring Requirements:

Power-limited and non power-limited circuit wiring must remain separated in the enclosure. All power-limited circuit wiring must remain at least 0.25" away from any non power-limited circuit wiring. Furthermore, all power-limited circuit wiring and non power-limited circuit wiring must enter and exit the enclosure through different conduits. One such example of this is shown below. Your specific application may require different conduit knockouts to be used. Any conduit knockouts may be used. For power-limited applications use of conduit is optional. All field wiring connections must be made employing suitable gauge CM or FPL jacketed wire (or equivalent substitute).

**Note:** Refer to wire handling drawing below for the proper way to install the CM or FPL jacketed wire *(Fig. 5a, pg. 6)*.

*Fig. 5*



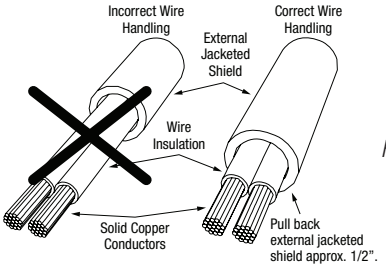




*Fig. 5a - Recommended jacketed wiring for power-limited connections*

## Installation Instructions for Trove2CV2 (TCV2):

1. Fasten spacers onto metal pems configuration (A) or configuration (B) of enclosure depending on the sub-assembly module *(Fig. 6, pg. 7)*.
2. Position sub-assembly module over corresponding spacers and secure module into enclosure with four (4) pan head screws supplied *(Fig. 6a, pg. 7)*.
3. Refer to the Trove2 Installation Guides and individual Sub-Assembly Installation Guides for the following models: ACM4(CB), LINQ2, LINQ8PD(CB), MOM5, PD4UL(CB), PD8UL(CB), PD16W(CB), PDS8(CB), ACMS8(CB), LINQ8ACM(CB), VR6 for further installation instructions.

## Sub-Assembly Position Chart for the Following Models:

| Sub-Assembly Module | Mounting Position | Mounting |
|---|---|---|
| ACM8(CB) | First, Second & Third on Left | (A)* |
| ACMS8(CB) | | |
| LINQ8ACM(CB) | | |
| LINQ2** | Top Edge | (C) |
| LINQ8PD(CB) | Two (2) Vertical Slots Third on Left | (B) |
| ACM4(CB) | | |
| MOM5 | | |
| PD4UL(CB) | | |
| PD8UL(CB) | | |
| PD16W(CB) | | |
| PDS8(CB) | | |
| VR6 | | |

* Top left position (A) is usually reserved for Altronix power supplies, but can also be used for sub-assemblies *(Fig. 6)*.

** LINQ2 can be installed when utilizing eFlow power supply/charger boards.

*Fig. 6*

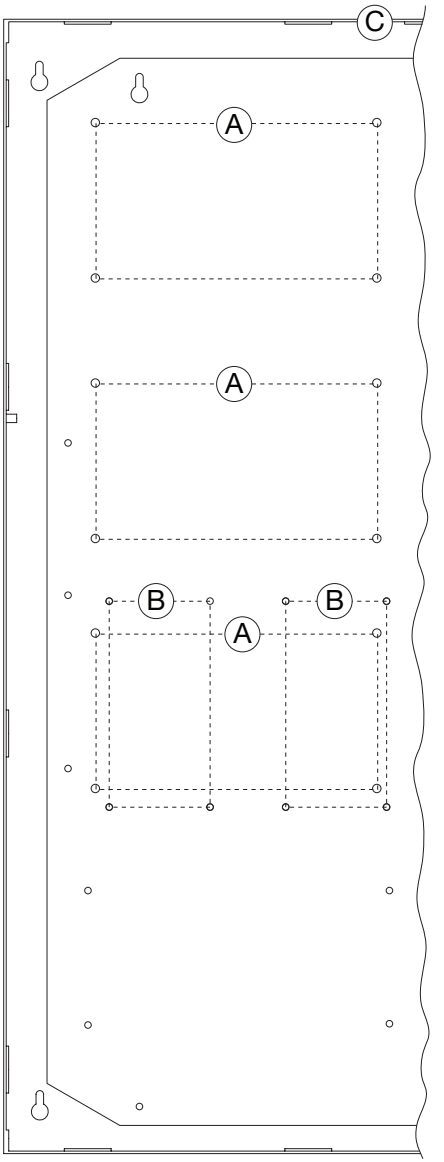
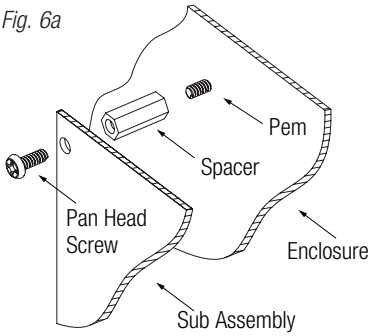



*Fig. 6a*

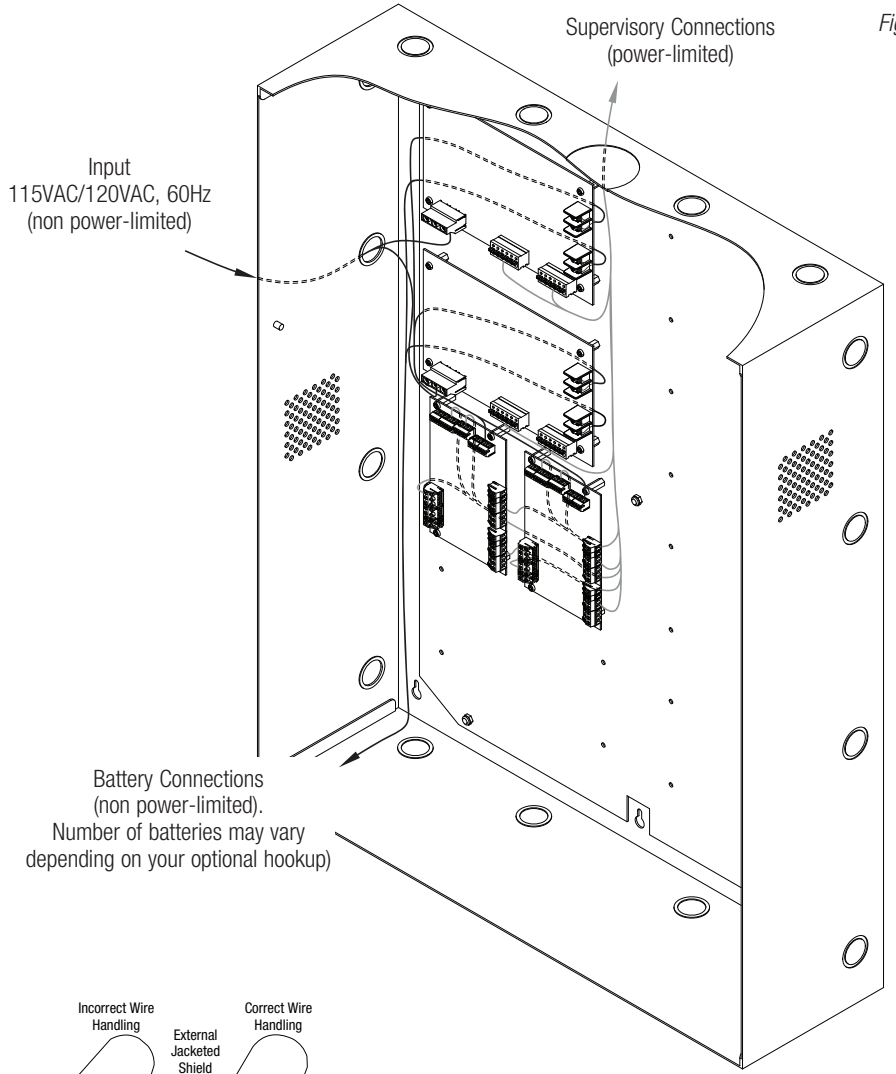


## NEC Power-Limited Wiring Requirements:

Power-limited and non power-limited circuit wiring must remain separated in the enclosure. All power-limited circuit wiring must remain at least 0.25" away from any non power-limited circuit wiring. Furthermore, all power-limited circuit wiring and non power-limited circuit wiring must enter and exit the enclosure through different conduits. One such example of this is shown below. Your specific application may require different conduit knockouts to be used. Any conduit knockouts may be used. For power-limited applications use of conduit is optional. All field wiring connections must be made employing suitable gauge CM or FPL jacketed wire (or equivalent substitute).

**Note:** Refer to wire handling drawing below for the proper way to install the CM or FPL jacketed wire *(Fig. 7a, pg. 8)*.

*Fig. 7*



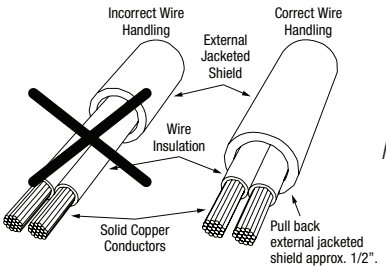




*Fig. 7a - Recommended jacketed wiring for power-limited connections*

## Installation Instructions for Maximal (BC800 Enclosure):

1. Fasten spacers onto metal pems configuration (A) or configuration (B) of enclosure depending on the sub-assembly module *(Fig. 8, pg. 9)*. ACM8(CB) modules can only be installed in the middle or bottom mounting positions of the Maximal enclosure.
2. Position sub-assembly module over corresponding spacers and secure module into enclosure with four (4) pan head screws supplied *(Fig. 8a, pg. 9)*.
3. Refer to the **Maximal Access Power Controllers** Installation Guides for: Maximal 3/5/7, Maximal 3D/5D/7D, Maximal 3F/5F/7F, Maximal 3FD/5FDFD, Maximal 11/33/55/75/77, Maximal 11D/33D/55D/75D/77D, Maximal 11F/33F/55F/75F/77F, Maximal 11FD/33FD/55FD/75FD/77FD *(Pgs. 20-21)*.
   Refer to the **Maximal Expandable Power Systems** Installation Guides for: Maximal 11E/13E/33E/35E/37E/55E/75E/77E, Maximal 11FE/FE/33FE/35FE/37FE/55FE/75FE/77FE *(Pg. 22)*, and individual Sub-Assembly Installation Guides for the following models: LINQ8PD(CB), ACM4(CB), LINQ2, MOM5, PD4UL(CB), PD8UL(CB), PD16W(CB), PDS8(CB), ACM8(CB), ACMS8(CB), LINQ8ACM(CB), VR6 for further installation instructions.

## Sub-Assembly Position Chart for the Following Models:

*Maximal Access Power Controller and Maximal Expandable Power Systems (refer to instruction #3 above).*

| Sub-Assembly Module | Mounting Position | Mounting |
|---|---|---|
| LINQ8PD(CB) | Top, Middle & Bottom | (A) |
| ACM4(CB) | | |
| MOM5 | | |
| PD4UL(CB) | | |
| PD8UL(CB) | | |
| PD16W(CB) | | |
| PDS8(CB) | | |
| VR6 | | |
| ACM8(CB) | Middle & Bottom | (B) |
| ACMS8(CB) | | |
| LINQ8ACM(CB) | | |
| LINQ2* | Edge of Divider | (C) |

* LINQ2 can be installed when utilizing eFlow power supply/charger boards.

*Fig. 8*

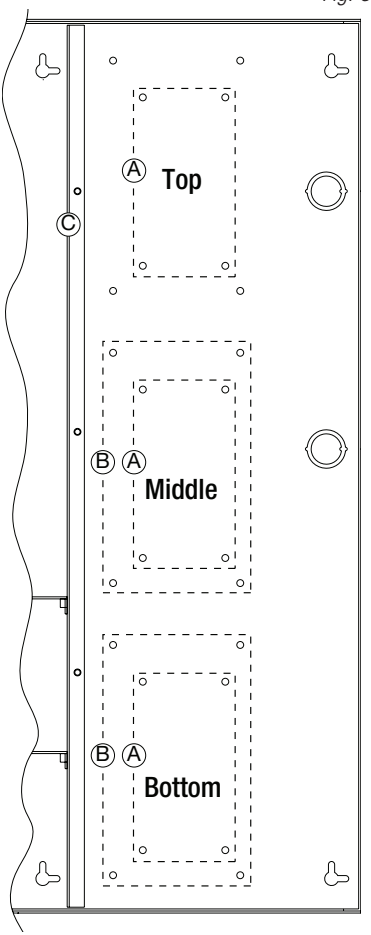
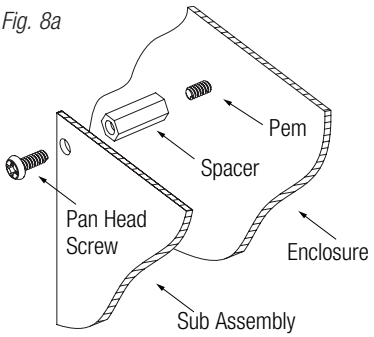



*Fig. 8a*

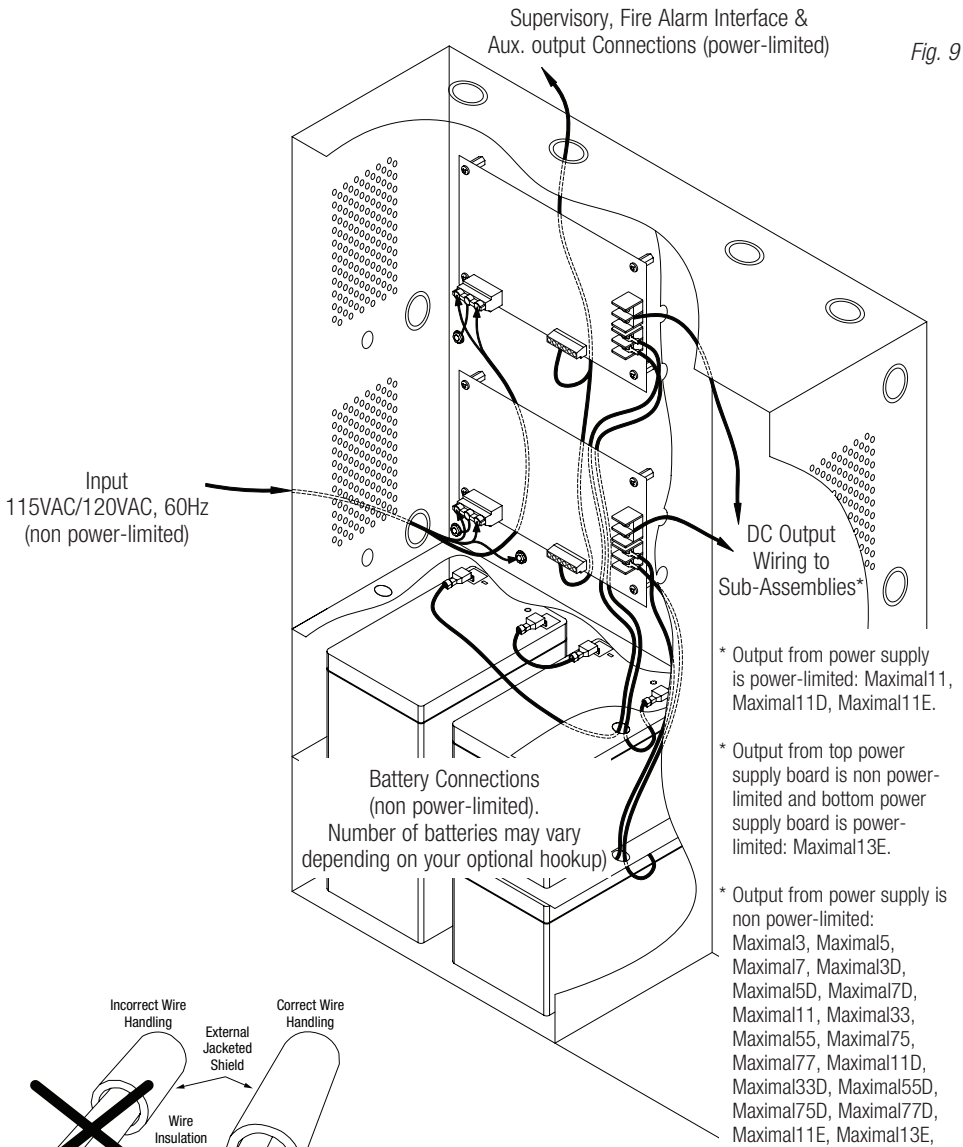


## NEC Power-Limited Wiring Requirements:

Power-limited and non power-limited circuit wiring must remain separated in the enclosure. All power-limited circuit wiring must remain at least 0.25" away from any non power-limited circuit wiring. Furthermore, all power-limited circuit wiring and non power-limited circuit wiring must enter and exit the enclosure through different conduits. One such example of this is shown below. Your specific application may require different conduit knockouts to be used. Any conduit knockouts may be used. For power-limited applications use of conduit is optional. All field wiring connections must be made employing suitable gauge CM or FPL jacketed wire (or equivalent substitute).

**Note:** Refer to wire handling drawing below for the proper way to install the CM or FPL jacketed wire *(Fig. 9a, pg. 6)*.

*Fig. 9*




* Output from power supply is power-limited: Maximal11, Maximal11D, Maximal11E.

* Output from top power supply board is non power-limited and bottom power supply board is power-limited: Maximal13E.

* Output from power supply is non power-limited: Maximal3, Maximal5, Maximal7, Maximal3D, Maximal5D, Maximal7D, Maximal11, Maximal33, Maximal55, Maximal75, Maximal77, Maximal11D, Maximal33D, Maximal55D, Maximal75D, Maximal77D, Maximal11E, Maximal13E, Maximal33E, Maximal35E, Maximal37E, Maximal55E, Maximal75E, Maximal77E.

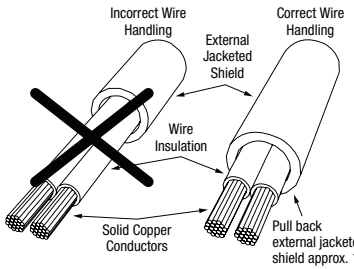



*Fig. 9a - Recommended jacketed wiring for power-limited connections*

## Installation Instructions for Power Supply/Chargers (BC300 Enclosure):

1. Fasten spacers onto metal pems configuration (A) of enclosure *(Fig. 10, pg. 11)*.
2. Position Sub-assembly module over spacers and secure module into enclosure with four (4) pan head screws supplied *(Fig. 10a, pg. 11)*.
3. Refer to the corresponding Power Supply/Charger Installation Guides: AL300ULX Series, AL400ULX Series, AL600ULX Series, eFlow3N Series, eFlow4N Series, eFlow6N Series, eFlow102N Series, eFlow104N Series and individual Sub-Assembly Installation Guides for the following models: ACM4(CB), LINQ2, LINQ8PD(CB), MOM5, PD4UL(CB), PD8UL(CB), PD16W(CB), PDS8(CB), VR6 for further installation instructions *(Pgs. 20-21)*.

## Sub-Assembly Position Chart for the Following Models:

AL300ULX, AL300ULXR, AL400ULX, AL400ULXR, AL600ULX, AL600ULXR, eFlow3N, eFlow4N, eFlow6N, eFlow102N, eFlow104N.

| Sub-Assembly Module | Mounting Position | Mounting |
|---|---|---|
| ACM8(CB) | Not Applicable | |
| ACMS8(CB) | | |
| LINQ8ACM(CB) | | |
| LINQ8PD(CB) | Right of Power Supply | (A) |
| ACM4(CB) | | |
| MOM5 | | |
| PD4UL(CB) | | |
| PD8UL(CB) | | |
| PD16W(CB) | | |
| PDS8(CB) | | |
| VR6 | | |
| LINQ2* | Top edge | (B) |

* LINQ2 can be installed when utilizing eFlow power supply/charger boards.

*Fig. 10*

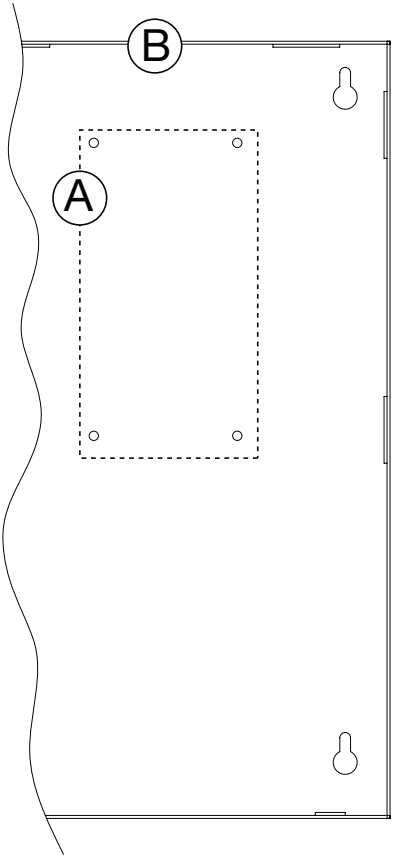
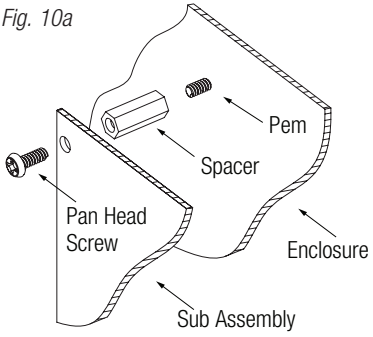



*Fig. 10a*

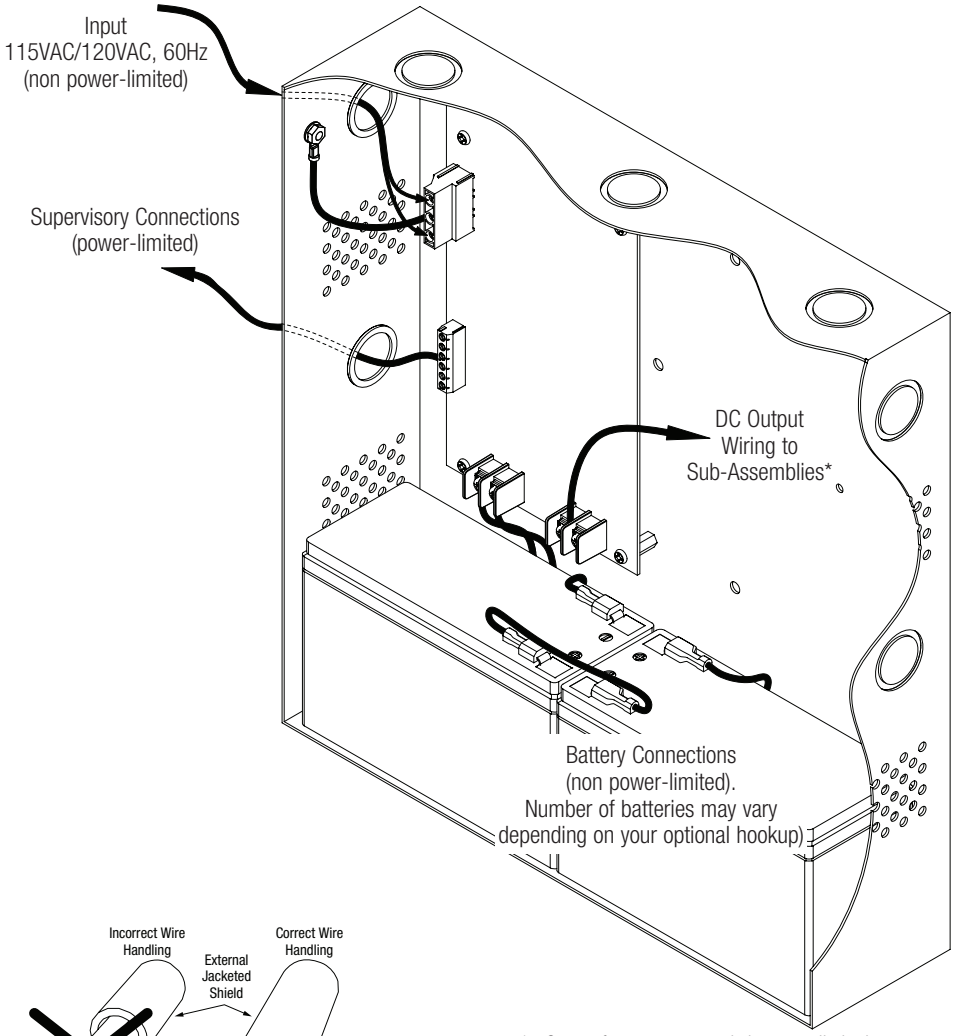


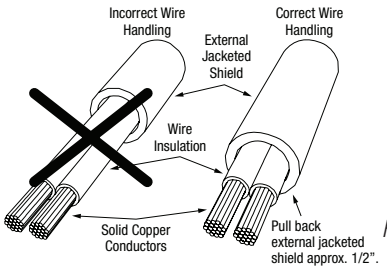
## NEC Power-Limited Wiring Requirements:

Power-limited and non power-limited circuit wiring must remain separated in the enclosure. All power-limited circuit wiring must remain at least 0.25" away from any non power-limited circuit wiring. Furthermore, all power-limited circuit wiring and non power-limited circuit wiring must enter and exit the enclosure through different conduits. One such example of this is shown below. Your specific application may require different conduit knockouts to be used. Any conduit knockouts may be used. For power-limited applications use of conduit is optional. All field wiring connections must be made employing suitable gauge CM or FPL jacketed wire (or equivalent substitute).

**Note:** Refer to wire handling drawing below for the proper way to install the CM or FPL jacketed wire *(Fig. 11a, pg. 12)*.

*Fig. 11* - **AL300ULX(R), AL400ULX(R), AL600ULX(R)**




* Output from power supply is power-limited: AL300ULX, AL300ULXR, AL400ULX, and AL400ULXR. Output from power supply is non power-limited: AL600ULX and AL600ULXR.

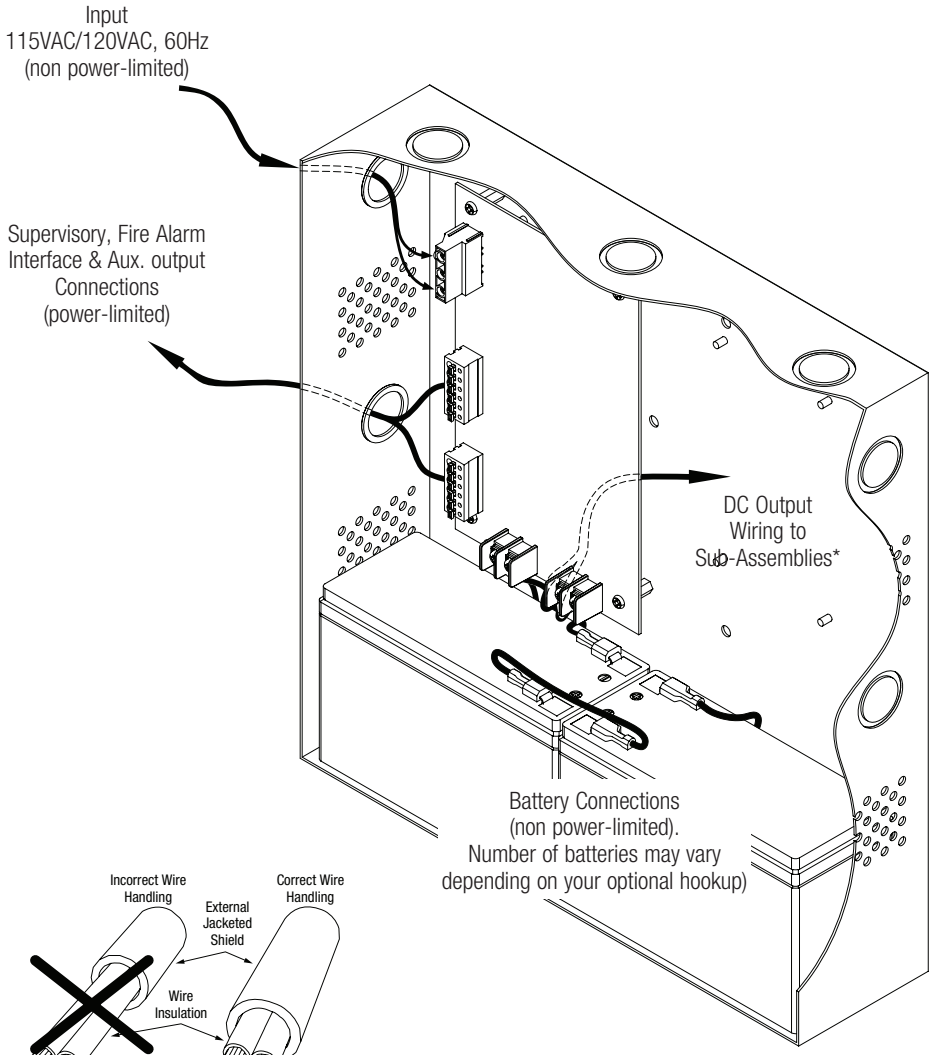
*Fig. 11a - Recommended jacketed wiring for power-limited connections*

## NEC Power-Limited Wiring Requirements:

Power-limited and non power-limited circuit wiring must remain separated in the enclosure. All power-limited circuit wiring must remain at least 0.25" away from any non power-limited circuit wiring. Furthermore, all power-limited circuit wiring and non power-limited circuit wiring must enter and exit the enclosure through different conduits. One such example of this is shown below. Your specific application may require different conduit knockouts to be used. Any conduit knockouts may be used. For power-limited applications use of conduit is optional. All field wiring connections must be made employing suitable gauge CM or FPL jacketed wire (or equivalent substitute).

**Note:** Refer to wire handling drawing below for the proper way to install the CM or FPL jacketed wire *(Fig. 12a, pg. 13)*.

*Fig. 12* - **eFlow3N, eFlow4N, eFlow6N, eFlow102N, and eFlow104N**



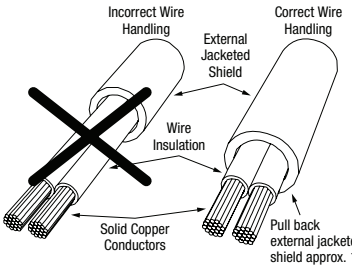




*Fig. 12a - Recommended jacketed wiring for power-limited connections*

* Output from power supply is power-limited: eFlow3N and eFlow4N.
Output from power supply is non power-limited: eFlow6N, eFlow102N and eFlow104N.

## Installation Instructions for Power Supply/Chargers (BC400 Enclosure):

1. Fasten spacers onto metal pems A configuration of enclosure *(Fig. 13, pg. 14)*.
2. Position sub-assembly module over spacers and secure module into enclosure with four (4) pan head screws supplied *(Fig. 13a, pg. 14)*.
3. Refer to the corresponding Power Supply/Charger Installation Guides for AL300ULXD, AL600ULXD, AL1012ULX Series, AL1024ULX Series, eFlow3N Series, eFlow4N Series, eFlow6N Series, eFlow102N Series, eFlow104N Series *(Pgs. 20-21)* and individual Sub-Assembly Installation Guides for the following models: ACM4(CB), LINQ2, LINQ8PD(CB), MOM5, PD4UL(CB), PD8UL(CB), PD16W(CB), PDS8(CB), ACM8(CB), ACMS8(CB), LINQ8ACM(CB), VR6 for further installation instructions.

## Sub-Assembly Position Chart for the Following Models:

AL300ULXD, AL600ULXD, AL1012ULX, AL1024ULX(R),
eFlow3NX, eFlow4NX, eFlow6NX, eFlow102NX and eFlow104NX.

| Sub-Assembly Module | Mounting Position | Mounting |
|---|---|---|
| LINQ8PD(CB) | Below Power Supply | A |
| ACM4(CB) | | |
| ACM8(CB) | | |
| MOM5 | | |
| PD4UL(CB) | | |
| PD8UL(CB) | | |

| Sub-Assembly Module | Mounting Position | Mounting |
|---|---|---|
| PD16W(CB) | Below Power Supply | A |
| PDS8(CB) | | |
| ACMS8(CB) | | |
| LINQ8ACM(CB) | | |
| VR6 | | |
| LINQ2* | Top edge | |

* LINQ2 can be installed when utilizing eFlow power supply/charger boards.

*Fig. 13*

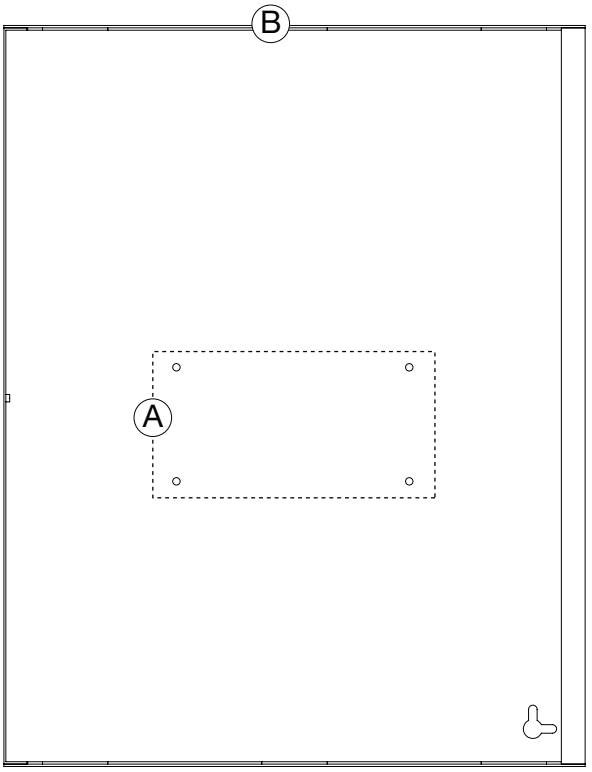
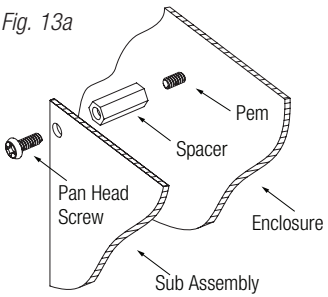



*Fig. 13a*

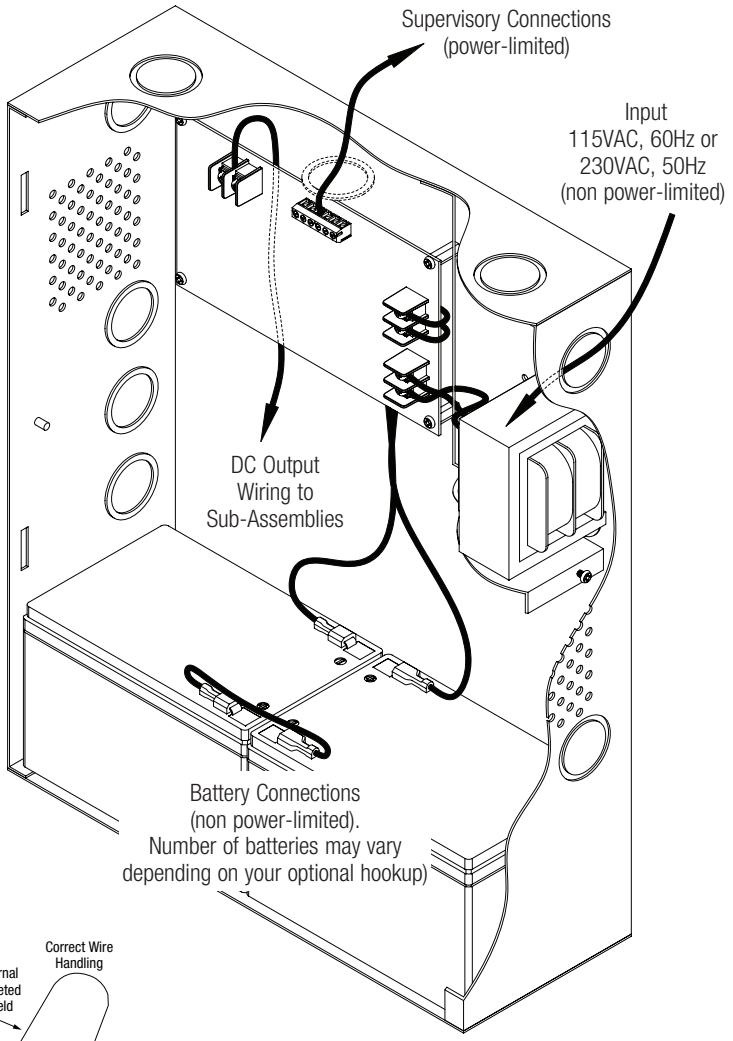


## NEC Power-Limited Wiring Requirements:

Power-limited and non power-limited circuit wiring must remain separated in the enclosure. All power-limited circuit wiring must remain at least 0.25" away from any non power-limited circuit wiring. Furthermore, all power-limited circuit wiring and non power-limited circuit wiring must enter and exit the enclosure through different conduits. One such example of this is shown below. Your specific application may require different conduit knockouts to be used. Any conduit knockouts may be used. For power-limited applications use of conduit is optional. All field wiring connections must be made employing suitable gauge CM or FPL jacketed wire (or equivalent substitute).

**Note:** Refer to wire handling drawing below for the proper way to install the CM or FPL jacketed wire *(Fig. 14a, pg. 15)*.

*Fig. 14 -* **AL300ULXD (power-limited output)**



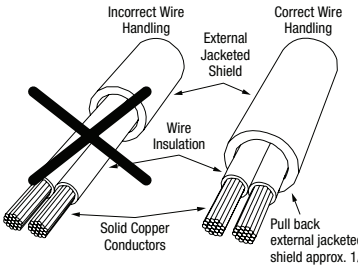



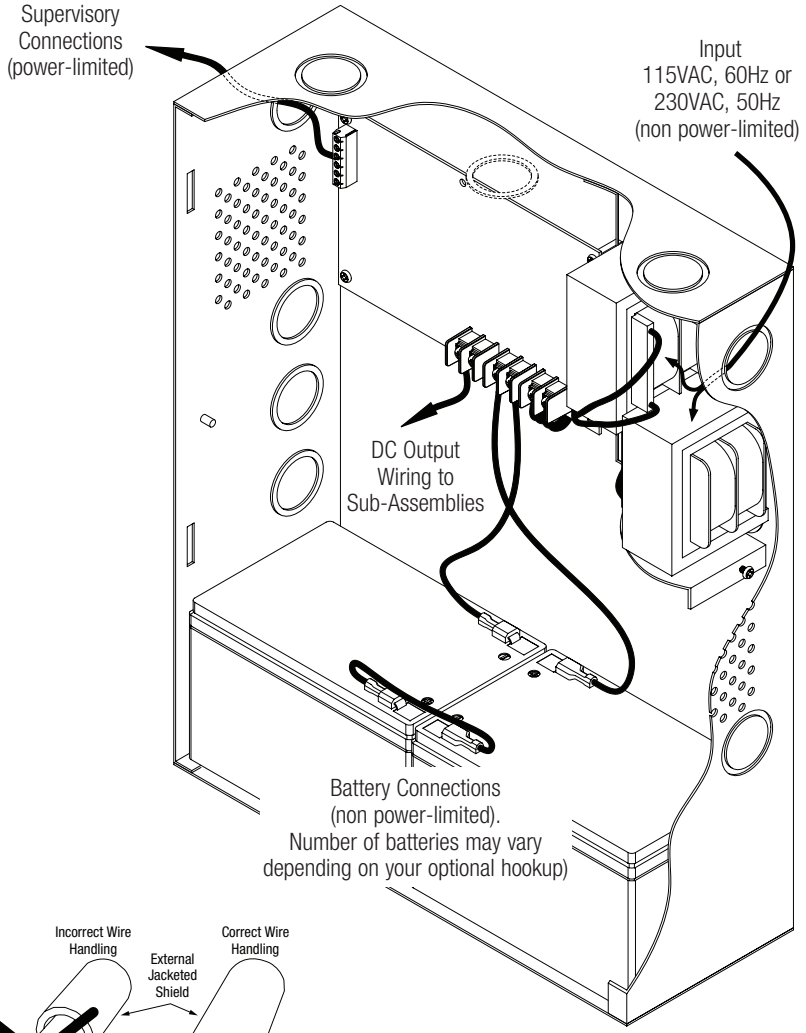

*Fig. 14a - Recommended jacketed wiring for power-limited connections*

## NEC Power-Limited Wiring Requirements:

Power-limited and non power-limited circuit wiring must remain separated in the enclosure. All power-limited circuit wiring must remain at least 0.25" away from any non power-limited circuit wiring. Furthermore, all power-limited circuit wiring and non power-limited circuit wiring must enter and exit the enclosure through different conduits. One such example of this is shown below. Your specific application may require different conduit knockouts to be used. Any conduit knockouts may be used. For power-limited applications use of conduit is optional. All field wiring connections must be made employing suitable gauge CM or FPL jacketed wire (or equivalent substitute).

**Note:** Refer to wire handling drawing below for the proper way to install the CM or FPL jacketed wire *(Fig. 15a, pg. 16)*.

*Fig. 15 -* **AL600ULXD (non power-limited output)**



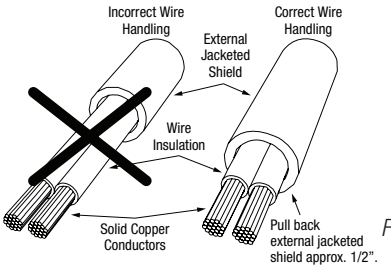



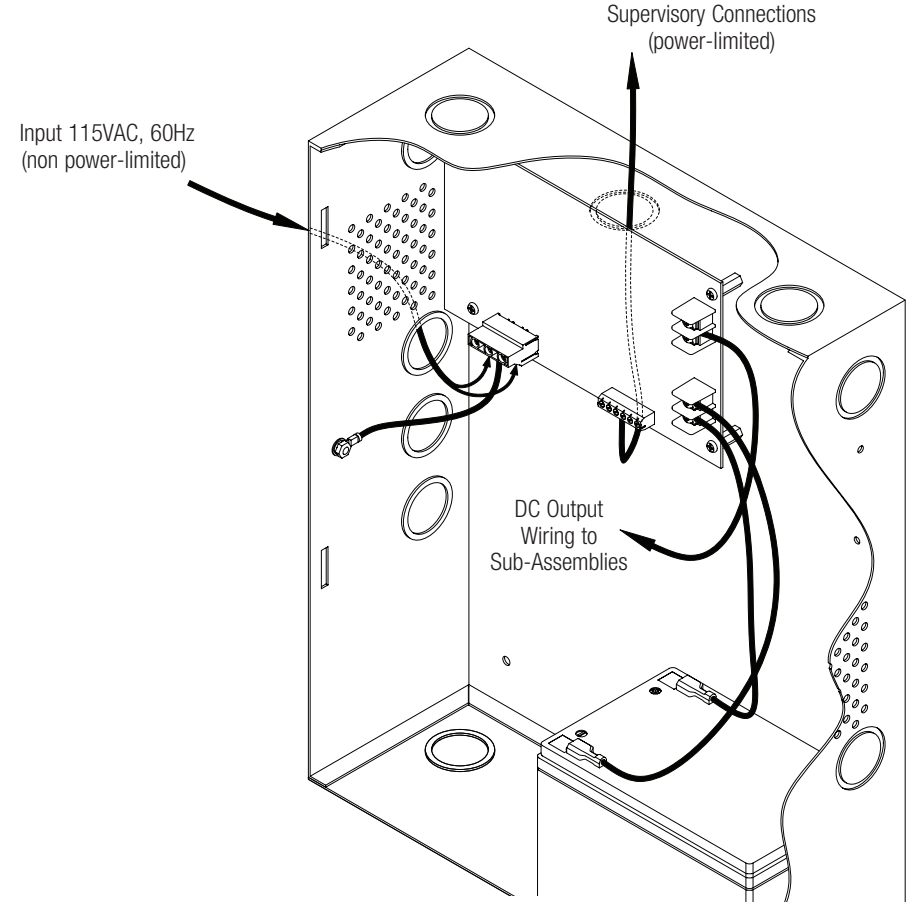

*Fig. 15a - Recommended jacketed wiring for power-limited connections*

## NEC Power-Limited Wiring Requirements:

Power-limited and non power-limited circuit wiring must remain separated in the enclosure. All power-limited circuit wiring must remain at least 0.25" away from any non power-limited circuit wiring. Furthermore, all power-limited circuit wiring and non power-limited circuit wiring must enter and exit the enclosure through different conduits. One such example of this is shown below. Your specific application may require different conduit knockouts to be used. Any conduit knockouts may be used. For power-limited applications use of conduit is optional. All field wiring connections must be made employing suitable gauge CM or FPL jacketed wire (or equivalent substitute).

**Note:** Refer to wire handling drawing below for the proper way to install the CM or FPL jacketed wire *(Fig. 16a, pg. 17)*.

*Fig. 16* - **AL1012ULX (non power-limited output)**



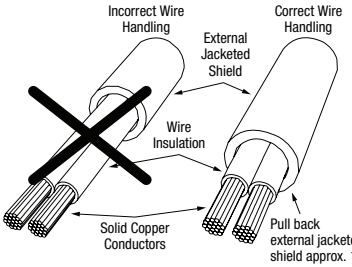



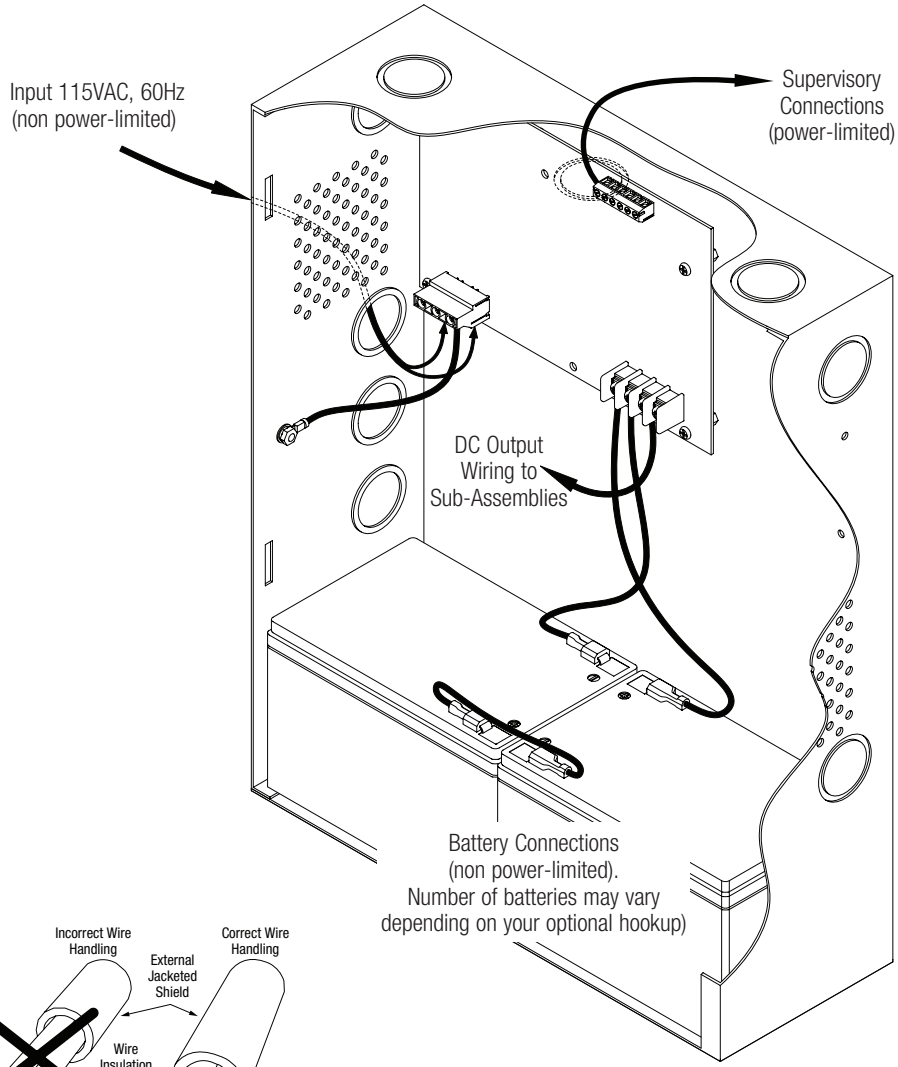

*Fig. 16a - Recommended jacketed wiring for power-limited connections*

## NEC Power-Limited Wiring Requirements:

Power-limited and non power-limited circuit wiring must remain separated in the enclosure. All power-limited circuit wiring must remain at least 0.25" away from any non power-limited circuit wiring. Furthermore, all power-limited circuit wiring and non power-limited circuit wiring must enter and exit the enclosure through different conduits. One such example of this is shown below. Your specific application may require different conduit knockouts to be used. Any conduit knockouts may be used. For power-limited applications use of conduit is optional. All field wiring connections must be made employing suitable gauge CM or FPL jacketed wire (or equivalent substitute).

**Note:** Refer to wire handling drawing below for the proper way to install the CM or FPL jacketed wire *(Fig. 17a, pg. 18)*.

*Fig. 17 -* **AL1024ULX(R) (non power-limited output)**



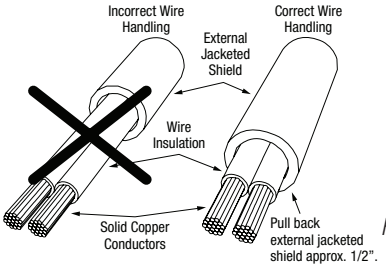
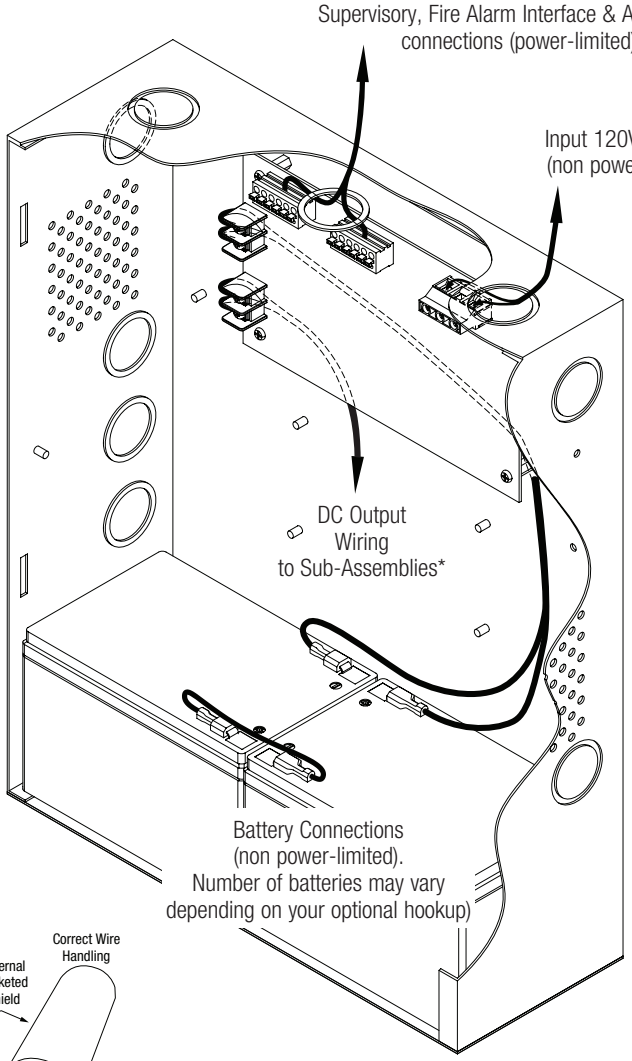



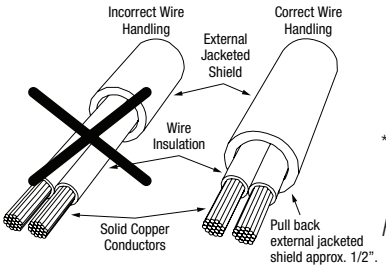

*Fig. 17a - Recommended jacketed wiring for power-limited connections*

## NEC Power-Limited Wiring Requirements:

Power-limited and non power-limited circuit wiring must remain separated in the enclosure. All power-limited circuit wiring must remain at least 0.25" away from any non power-limited circuit wiring. Furthermore, all power-limited circuit wiring and non power-limited circuit wiring must enter and exit the enclosure through different conduits. One such example of this is shown below. Your specific application may require different conduit knockouts to be used. Any conduit knockouts may be used. For power-limited applications use of conduit is optional. All field wiring connections must be made employing suitable gauge CM or FPL jacketed wire (or equivalent substitute).
Note: Refer to wire handling drawing below for the proper way to install the CM or FPL jacketed wire *(Fig. 18a, pg. 19)*.

*Fig. 18 -* **eFlow3NX, eFlow4NX, eFlow6NX, eFlow102NX, and eFlow104NX**




* Output from power supply is power-limited: eFlow3NX and eFlow4NX.
Output from power supply is non power-limited:
eFlow6NX, eFlow102NX and eFlow104NX.

*Fig. 17a - Recommended jacketed wiring for power-limited connections*

## Altronix Power Supply/Charger Reference Chart:

| Power Supply | Input Rating | Output Rating | Refer to |
|---|---|---|---|
| **AL300ULX** | 115VAC, 60Hz, 3.5A | 12VDC or 24VDC @ 2.5A | AL300ULX Series Installation Guide Rev. 102512 |
| **AL400ULX** | 115VAC, 60Hz, 3.5A | 12VDC @ 4A or 24VDC @ 3A | AL400ULX Series Installation Guide Rev. 102512 |
| **AL600ULX** | 115VAC, 60Hz, 3.5A | 12VDC or 24VDC @ 6A | AL400ULX Series Installation Guide Rev. 120612 |
| **AL1012ULX** | 115VAC, 60Hz, 2.6A | 12VDC @ 10A | AL1012ULX Series Installation Guide Rev. 120712 |
| **AL1024ULX** | 115VAC, 60Hz, 4.2A | 24VDC @ 10A | AL1024ULX Series Installation Guide Rev. 121012 |

| | | | |
|---|---|---|---|
| **AL300ULXD** | 115VAC, 60Hz, 0.9A or 230VAC, 60Hz, 0.45A | 12VDC or 24VDC @ 2.5A | AL300ULXD Installation Guide Rev. 021500 |
| **AL600ULXD** | 115VAC 60Hz, 1.9A or 230VAC 60Hz 0.95A | 12VDC or 24VDC @ 6A | IIAL600ULXD Installtaion Guide Rev. 013103 |

| | | | |
|---|---|---|---|
| **Maximal3** | 115VAC, 60Hz, 3.5A | 12VDC @ 5A or 24VDC @ 5.4A | Maximal Series Access Power Controllers Installation Guide Rev. SF110912 |
| **Maximal5** | 115VAC, 60Hz, 2.6A | 12VDC @ 9A | |
| **Maximal7** | 115VAC, 60Hz, 4.2A | 24VDC @ 9.4A | |
| **Maximal3D** | 115VAC, 60Hz, 3.5A | 12VDC @ 5A or 24VDC @ 5.4A | Maximal Series Access Power Controllers Installation Guide Rev. SCB110912 |
| **Maximal5D** | 115VAC, 60Hz, 2.6A | 12VDC @ 9A | |
| **Maximal7D** | 115VAC, 60Hz, 4.2A | 24VDC @ 9.4A | |

| | | | | |
|---|---|---|---|---|
| **Maximal11** | 115VAC, 60Hz, 7.0A | **Power Supply 1** | **Power Supply 2** | Maximal Series Access Power Controllers Installation Guide Rev. DF102512 |
| | | 12VDC @ 3.5A | 12VDC @ 3.5A | |
| | | 12VDC @ 2.7A | 24VDC @ 2.7A | |
| | | 24VDC @ 3.5A | 24VDC @ 3.5A | |
| **Maximal33** | 115VAC, 60Hz, 7.0A | **Power Supply 1** | **Power Supply 2** | |
| | | 12VDC @ 5.5A | 12VDC @ 5.5A | |
| | | 12VDC @ 5.7A | 24VDC @ 5.7A | |
| | | 24VDC @ 5.5A | 24VDC @ 5.7A | |
| **Maximal55** | 115VAC, 60Hz, 5.2A | **Power Supply 1** | **Power Supply 2** | |
| | | 12VDC @ 9.5A | 12VDC @ 9.5A | |
| **Maximal75** | 115VAC, 60Hz, 7.0A | **Power Supply 1** | **Power Supply 2** | |
| | | 24VDC @ 9.5A | 12VDC @ 9.5A | |
| **Maximal77** | 115VAC, 60Hz, 8.8A | **Power Supply 1** | **Power Supply 2** | |
| | | 24VDC @ 9.7A | 24VDC @ 9.7A | |
| **Maximal11D** | 115VAC, 60Hz, 7.0A | **Power Supply 1** | **Power Supply 2** | Maximal Series Access Power Controllers Installation Guide Rev. DCB102512 |
| | | 12VDC @ 3.5A | 12VDC @ 3.5A | |
| | | 12VDC @ 2.7A | 24VDC @ 2.7A | |
| | | 24VDC @ 3.5A | 24VDC @ 3.5A | |
| **Maximal33D** | 115VAC, 60Hz, 7.0A | **Power Supply 1** | **Power Supply 2** | |
| | | 12VDC @ 5.5A | 12VDC @ 5.5A | |
| | | 12VDC @ 5.7A | 24VDC @ 5.7A | |
| | | 24VDC @ 5.5A | 24VDC @ 5.7A | |
| **Maximal55D** | 115VAC, 60Hz, 5.2A | **Power Supply 1** | **Power Supply 2** | |
| | | 12VDC @ 9.5A | 12VDC @ 9.5A | |
| **Maximal75D** | 115VAC, 60Hz, 7.0A | **Power Supply 1** | **Power Supply 2** | |
| | | 24VDC @ 9.5A | 12VDC @ 9.5A | |
| **Maximal77D** | 115VAC, 60Hz, 8.8A | **Power Supply 1** | **Power Supply 2** | |
| | | 24VDC @ 9.7A | 24VDC @ 9.7A | |

## Altronix Power Supply/Charger Reference Chart:

| Power Supply | Input Rating | Output Rating | Refer to |
|---|---|---|---|
| **eFlow3N(X)** | 120VAC, 60Hz, 3.5A | 12VDC or 24VDC @ 2A | eFlow3N Series Installation Guide Rev. 3NRP013019 |
| **eFlow4N(X)** | 120VAC, 60Hz, 3.5A | 12VDC or 24VDC @ 4A | eFlow4N Series Installation Guide Rev. 4NRP020819 |
| **eFlow6N(X)** | 120VAC, 60Hz, 3.5A | 12VDC or 24VDC @ 6A | eFlow6N Series Installation Guide Rev. 6NRP020819 |
| **eFlow102N(X)** | 120VAC, 60Hz, 3.5A | 12VDC @ 10A | eFlow102N Series Installation Guide Rev. 102NRP020819 |
| **eFlow104N(X)** | 120VAC, 60Hz, 4.5A | 24VDC @ 10A | eFlow104N Series Installation Guide Rev. 104NRP021119 |

| | | | |
|---|---|---|---|
| **Maximal3F** | 120VAC, 60Hz, 3.5A | 12VDC @ 4.6A or 24VDC @ 5.2A | Maximal Series Access Power Controllers with Power Supplies Installation Guide Rev. SFF051313 |
| **Maximal5F** | 120VAC, 60Hz, 3.5A | 12VDC @ 8.6A | |
| **Maximal7F** | 120VAC, 60Hz, 4.5A | 24VDC @ 9.2A | |
| **Maximal3FD** | 120VAC, 60Hz, 3.5A | 12VDC @ 4.6A or 24VDC @ 5.2A | Maximal Series Access Power Controllers with Power Supplies Installation Guide Rev. SFD051313 |
| **Maximal5FD** | 120VAC, 60Hz, 3.5A | 12VDC @ 8.6A | |
| **Maximal7FD** | 120VAC, 60Hz, 4.5A | 24VDC @ 9.2A | |

| | | | | |
|---|---|---|---|---|
| **Maximal11F** | 120VAC, 60Hz, 7.0A | **Power Supply 1** | **Power Supply 2** | Maximal Series Access Power Controllers with Power Supplies Installation Guide Rev. Rev. DFF051613 |
| | | 12VDC @ 3.3A | 12VDC @ 3.3A | |
| | | 12VDC @ 3.3A | 24VDC @ 3.6A | |
| | | 24VDC @ 3.6A | 24VDC @ 3.6A | |
| **Maximal33F** | 120VAC, 60Hz, 7.0A | **Power Supply 1** | **Power Supply 2** | |
| | | 12VDC @ 5.3A | 12VDC @ 5.3A | |
| | | 12VDC @ 5.3A | 24VDC @ 5.6A | |
| | | 24VDC @ 5.3A | 24VDC @ 5.6A | |
| **Maximal55F** | 120VAC, 60Hz, 7.0A | **Power Supply 1** | **Power Supply 2** | |
| | | 12VDC @ 9.3A | 12VDC @ 9.3A | |
| **Maximal75F** | 120VAC, 60Hz, 8.0A | **Power Supply 1** | **Power Supply 2** | |
| | | 24VDC @ 9.3A | 12VDC @ 9.6A | |
| **Maximal77F** | 120VAC, 60Hz, 9.0A | **Power Supply 1** | **Power Supply 2** | |
| | | 24VDC @ 9.6A | 24VDC @ 9.6A | |
| **Maximal11FD** | 120VAC, 60Hz, 7.0A | **Power Supply 1** | **Power Supply 2** | Maximal Series Access Power Controllers with Power Supplies Installation Guide Rev. Rev. DFF051613 |
| | | 12VDC @ 3.3A | 12VDC @ 3.3A | |
| | | 12VDC @ 3.3A | 24VDC @ 3.6A | |
| | | 24VDC @ 3.6A | 24VDC @ 3.6A | |
| **Maximal33FD** | 120VAC, 60Hz, 7.0A | **Power Supply 1** | **Power Supply 2** | |
| | | 12VDC @ 5.3A | 12VDC @ 5.3A | |
| | | 12VDC @ 5.3A | 24VDC @ 5.6A | |
| | | 24VDC @ 5.3A | 24VDC @ 5.6A | |
| **Maximal55FD** | 120VAC, 60Hz, 7.0A | **Power Supply 1** | **Power Supply 2** | |
| | | 12VDC @ 9.3A | 12VDC @ 9.3A | |
| **Maximal75FD** | 120VAC, 60Hz, 8.0A | **Power Supply 1** | **Power Supply 2** | |
| | | 24VDC @ 9.3A | 12VDC @ 9.6A | |
| **Maximal77FD** | 120VAC, 60Hz, 9.0A | **Power Supply 1** | **Power Supply 2** | |
| | | 24VDC @ 9.6A | 24VDC @ 9.6A | |

# Altronix Power Supply/Charger Reference Chart:

| Power Supply | Input Rating | Output Rating | | Refer to |
|---|---|---|---|---|
| Maximal11E | 115VAC, 60Hz, 7.0A | Power Supply 1 | Power Supply 2 | Maximal Series Expandable Power Systems Installation Guide Rev. ME102512 |
| | | 12VDC @ 4A | 12VDC @ 4A | |
| | | 12VDC @ 4A | 24VDC @ 3A | |
| | | 24VDC @ 3A | 24VDC @ 3A | |
| Maximal13E | 115VAC, 60Hz, 7.0A | Power Supply 1 | Power Supply 2 | |
| | | 12VDC @ 6A | 12VDC @ 4A | |
| | | 24VDC @ 6A | 12VDC @ 4A | |
| | | 12VDC @ 6A | 24VDC @ 3A | |
| | | 24VDC @ 6A | 24VDC @ 3A | |
| Maximal33E | 115VAC, 60Hz, 7.0A | Power Supply 1 | Power Supply 2 | |
| | | 12VDC @ 6A | 12VDC @ 6A | |
| | | 12VDC @ 6A | 24VDC @ 6A | |
| | | 24VDC @ 6A | 24VDC @ 6A | |
| Maximal35E | 115VAC, 60Hz, 6.1A | Power Supply 1 | Power Supply 2 | |
| | | 12VDC @ 10A | 12VDC @ 6A | |
| | | 12VDC @ 10A | 24VDC @ 6A | |
| Maximal37E | 115VAC, 60Hz, 7.9A | Power Supply 1 | Power Supply 2 | |
| | | 24VDC @ 10A | 12VDC @ 6A | |
| | | 24VDC @ 10A | 24VDC @ 6A | |
| Maximal55E | 115VAC, 60Hz, 5.2A | Power Supply 1 | Power Supply 2 | |
| | | 12VDC @ 10A | 12VDC @ 10A | |
| Maximal75E | 115VAC, 60Hz, 7.0A | Power Supply 1 | Power Supply 2 | |
| | | 24VDC @ 10A | 12VDC @ 10A | |
| Maximal77E | 115VAC, 60Hz, 8.8A | Power Supply 1 | Power Supply 2 | |
| | | 24VDC @ 10A | 24VDC @ 10A | |

| | | | | |
|---|---|---|---|---|
| Maximal11FE | 120VAC, 60Hz, 7A | Power Supply 1 | Power Supply 2 | Maximal Series Expandable Power Systems Installation Guide Rev. MFE051313 |
| | | 12VDC @ 4A | 12VDC @ 4A | |
| | | 12VDC @ 4A | 24VDC @ 3A | |
| | | 24VDC @ 3A | 24VDC @ 3A | |
| Maximal13FE | 120VAC, 60Hz, 7A | Power Supply 1 | Power Supply 2 | |
| | | 12VDC @ 6A | 12VDC @ 4A | |
| | | 24VDC @ 6A | 12VDC @ 4A | |
| | | 12VDC @ 6A | 24VDC @ 3A | |
| | | 24VDC @ 6A | 24VDC @ 3A | |
| Maximal33FE | 120VAC, 60Hz, 7A | Power Supply 1 | Power Supply 2 | |
| | | 12VDC @ 6A | 12VDC @ 6A | |
| | | 12VDC @ 6A | 24VDC @ 6A | |
| | | 24VDC @ 6A | 24VDC @ 6A | |
| Maximal35FE | 120VAC, 60Hz, 7A | Power Supply 1 | Power Supply 2 | |
| | | 12VDC @ 10A | 12VDC @ 6A | |
| | | 12VDC @ 10A | 24VDC @ 6A | |
| Maximal37FE | 120VAC, 60Hz, 8A | Power Supply 1 | Power Supply 2 | |
| | | 24VDC @ 10A | 12VDC @ 6A | |
| | | 24VDC @ 10A | 24VDC @ 6A | |
| Maximal55FE | 120VAC, 60Hz, 7A | Power Supply 1 | Power Supply 2 | |
| | | 12VDC @ 10A | 12VDC @ 10A | |
| Maximal75FE | 120VAC, 60Hz, 8A | Power Supply 1 | Power Supply 2 | |
| | | 24VDC @ 10A | 12VDC @ 10A | |
| Maximal77FE | 120VAC, 60Hz, 9A | Power Supply 1 | Power Supply 2 | |
| | | 24VDC @ 10A | 24VDC @ 10A | |

## Enclosure Dimensions:

| Enclosure | Dimensions (H x W x D) |
|---|---|
| **Trove1** | 18" x 14.5" x 4.625" (457mm x 368mm x 118mm) |
| **Trove2** | 27.25" x 21.75" x 6.5" (692.2mm x 552.5mm x 165.1mm) |
| **Maximal (BC800)** | 26" x 19" x 6.25" (660.4mm x 482.6mm x 158.8mm) |
| **BC300**<br><br>AL300ULX, AL400ULX, AL600ULX<br><br>eFlow3N, eFlow4N, eFlow6N, eFlow102N, eFlow104N | 13.5" x 13" x 3.25" (342.9mm x 330.2mm x 82.6mm) |
| **BC400**<br><br>AL300ULXD, AL600ULXD, AL1012ULX, AL1024ULX<br><br>eFlow3NX, eFlow4NX, eFlow6NX, eFlow102NX, eFlow104NX | 15.5" x 12" x 4.5" (393.7mm x 304.8mm x 114.3mm) |

## Notes: