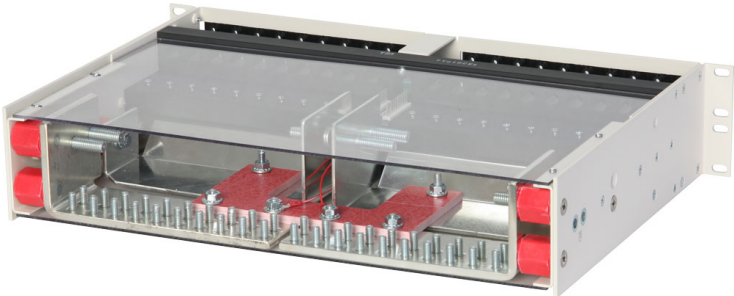


Dual-Feed 600A Load Center Frame

Installation Guide



600CB10 front view



600CB10-C rear view



Applies to: 600CB10 – 600CB10-C – 600CB10-VL – 600CB10-CL – 600CB12 – 600CB12-C – 600CB12-VL – 600CB12-CL

Installation Guide, Part Number 136429-3

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About

Amphenol Network Solutions is a global innovative original equipment manufacturer that serves the data and communications markets. We design, manufacturer, and distribute products for customers who need an end to end solution for network connectivity, fiber, power distribution and rack management. We collaborate with our customers to deliver product solutions that exceed expectations with innovative designs and world class quality. Amphenol Network Solutions is the industry thought leader on network cable management.



Telect, Inc. has been a market leader in secondary DC power distribution for over 36 years. Through our acquisition by Amphenol and our merger with All Systems Broadband, to become Amphenol Network Solutions, we have continued to deliver reliable, high-quality solutions to power, protect, and monitor today's network servers and equipment. We are proud to be an Amphenol company that will continue to be Powered by Telect.

Technical Support

Email: support@amphenol-ns.com
Phone: 509.926.6000

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1.1 Overview

The Amphenol Network Solutions dual-feed 600A per feed load center frames provide high-capacity, -48V and $\pm 24V$ power protection for secondary power distribution and data, and communications equipment. Amphenol Network Solutions load center frames are also ideal for primary distribution in small central offices and at remote sites.

Models 600CB10 and 600CB12 are open-frame chassis providing excellent heat dissipation and overhead access to the load center's BATT and RTN terminals, vertical inputs.

Models 600CB10 and 600CB12 are white, 2RU, and fit racks with either EIA or WECO spacing.

- Model 600CB10 contains 10 interrupter positions on each side and fits a 19-inch rack (an adapter kit can be purchased separately to mount the 600CB10 in a 23-inch rack).
- Model 600CB12 has 12 interrupter positions on each side and fits a 23-inch rack.

Both accommodate AIRPAX®-style LEL or Carling CA1 circuit breakers or fuses (TPC/TPW and TPS/TLS) in single-through quad-pole configurations. Each circuit breaker or fuse pole position accommodates a bullet-style, plug-in circuit breaker or fuse holder up to 100A. With double-pole circuit breakers or TPW fuses, the maximum output load can be up to 200A. The triple-pole circuit breakers have a maximum load of 250A and the quad-pole circuit breakers have a maximum load of 400A.

Sides A and B are electrically isolated except for the alarm card, which contains power, fuse and bay status relays with dry, Form-C contacts. The contacts are connected to wire-wrap pins to switch on external power to visual/audio external alarms. The alarm card also controls the three dual-color LEDs on the front panel.

All input, output and alarm terminals are within the open-frame chassis. All BATT and RTN inputs, outputs and ground accommodate dual-hole lugs. Input and output terminals are studs and the ground terminals are bolt connections at the sides of the load center near the rear corners. Only one ground connection is required.

Fuses, fuse holders and circuit breakers are sold separately. Also sold separately are single-, double-, triple- and quad-pole straps for the output of the breakers or fuses. These copper straps bridge the output of the fuse holders or circuit breakers to the output studs. See amphenol-ns.com to order breakers, fuses, fuse holders and load straps.

The 600CB10-C and 600CB12-C provide horizontal inputs and a cover. The 600CB10-CL and 600CB12-CL also provide horizontal inputs, a cover and single-pole load straps pre-installed into the panel.

The 600CB10-VL and 600CB12-VL provide vertical inputs as well as single-pole load straps pre-installed into the panel.

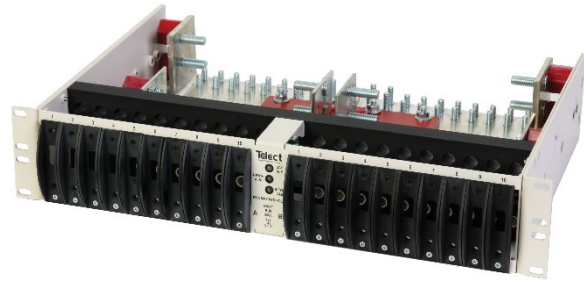


Fig. 1: 600CB10, 19" 10/10 position load center frame

1.2 Installation Guidelines

- **Elevated Operating Ambient Temperature:** If you install the rack in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Take care to install the equipment in an environment compatible with the maximum operating temperature.
- **Reduced Air Flow:** Maintain the amount of air flow required for safe operation when installing the equipment in a rack.
- **Mechanical Loading:** Ensure mechanical loading is even to prevent hazardous conditions.
- **Circuit Overloading:** Overloading circuits may affect your overcurrent protection and supply wiring. Use equipment nameplate ratings.
- **Reliable Earthing:** Maintain reliable earthing or rack-mounted equipment. Pay attention to supply connections other than direct connections to the branch circuit (e.g., use of power strips).
- **Disconnect Device:** Incorporate a readily accessible disconnect device in the building installation wiring.

1.3 Inspection

Please read and understand all instructions before installation. If you have questions, contact Amphenol Network Solutions Technical support at support@amphenol-ns.com or call 509.926.6000.

When you receive the equipment, carefully unpack it and compare it to the packaging list. Please report any defective or missing parts to Amphenol Network Solutions Quality at quality@amphenol-ns.com or call 509.926.6000.

Amphenol Network Solutions is not liable for transit damage. If the product is damaged, please report it to the carrier and contact Amphenol Network Solutions Quality.

NOTE: For service or warranty information, please visit amphenol-ns.com and click on the support tab, email Amphenol Network Solutions at getinfo@amphenol-ns.com or call us at 509.926.6000.

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1.4 Specifications

Inputs:	Specifications:
Voltage range (nominal voltage)	±21.6V to ±30V (nominal ±24 VDC) -40V to -60V (nominal -48 VDC)
Max. input load rating	600A per side at max. operating ambient of 49°C (120°F)
Short circuit withstand rating	5000A
Nominal power loss at full load	Less than 75W per side @28,800W full load per side (600A x 48V)
Percentage of full power dissipation at nominal voltage	Less than 1%
Max. input interrupt device	750A
Input terminal studs (with nuts, flat washers and spring washers) for dual-hole compression lugs	Two pairs of 3/8-16 studs on one-inch centers per terminal [max. lug width of 1.94" (49.2 mm)] per pair. Torque nut (using 9/16-inch or 15 mm wrench) to 150 in/lb. (~17 N•m), max.
Input wire size	#1 AWG to 750 MCM
Grounding:	Specifications:
Earth GND terminal bolts (with washers) for dual-hole compression lug	Two pair of 1/4-20 threaded holes on 5/8-inch centers. Torque bolts (using 7/16-inch or 12 mm wrench) to 50 in/lb. (5.5 N•m), max.
Ground wire size	#2 AWG (min.) for any input interrupt device 400A or more
Outputs:	Specifications:
Max. output circuit breaker or fuse holder	Single-pole: 100A; Double-pole: 175A
Max. output load – continuous	Single-pole: 80A; Double-pole: 140A
Minimum short circuit interrupt rating	5000A
Max. total output load	5500A per side
Output terminal studs (with KEPS nuts and washers) for dual-hole compression lugs	1/4-20 studs on 5/8-inch centers [max. lug width of 0.625" (15.8 mm) for a BATT terminal and 0.70" (17.7 mm) for a RTN terminal]. Torque bolts (using 7/16-inch or 12 mm wrench) to a 50 in/lb. (5.5 N•m), max.
Output wire size	<ul style="list-style-type: none"> • #10 AWG (min.) for a 25A single-pole interrupter to #2 AWG (min.) for a 100A single-pole interrupter • #2 AWG (min.) for double-pole interrupters from 100A to 175A • 2/0 AWG (min.) for triple-pole interrupters • 4/0 AWG (min.) for quad-pole interrupters
Circuit breakers*	• AIRPAX®-style LEL or Carling-style CA1**
Fuse and fuse holders	<ul style="list-style-type: none"> • TFD fuse holders for single-pole TLS or TPS fuses • TPC DC-BBE-3 fuse holders for single-pole TPC fuses • TPW fuse holders for double-pole TPC fuses
Alarms:	Specifications:
Alarm relay contacts	2A @ 30 VDC; 0.6A @ 60 VDC
Max. alarm card power rating	@24V: 103 mA (2.47W); @48V: 128 mA (6.14W)
Alarm wire size	#24 AWG, typical (#26 to #20 AWG)
Alarm terminals	Wire wrap
Dimensions:	Specifications:
600CB10 width (all models)	19" (483 mm)
600CB12 width (all models)	23" (584 mm)
Height:	3.5" (88 mm)
Depth:	12" (305 mm)

Dual-Feed 600A Load Center Frame

Dimensions:		Specifications:	
Weight, without packaging and accessories		600CB10: 18 lbs. (8.2 kg); 600CB12: 22 lbs. (10 kg)	600CB10-xL: 21 lbs. (9.5 kg); 600CB12-xL: 25 lbs. (11.3 kg)
Weight, shipping		600CB10: 25 lbs. (11 kg); 600CB12: 30 lbs. (14 kg)	600CB10-xL: 28 lbs. (12.7 kg); 600CB12-xL: 33 lbs. (15 kg)
Environment:		Specifications:	
Operating temperature		-10°C (14°F) to 55°F (131°F)	
Humidity		90%, non-condensing	
Compliance:		Specifications:	
Agency compliance		UL Recognized, NEBS Level 3	

* Amphenol Network Solutions suggests avoiding the use of different types of circuit breakers or fuses in the same load center. Alarm contacts may vary among interrupter manufacturers and may incapacitate the alarm system.

** Circuit breakers for this load center are designed and manufactured by Airpax Corporation and Carling Industries to meet Amphenol Network Solutions specifications. Order circuit breakers only from Amphenol Network Solutions.

⚠ ALERT

ALERT! Only qualified technicians may install and maintain this product. Verify all connections meet requirements specified in local electric codes or operating company guidelines before supplying power. Protect this equipment with a fuse or breaker sufficient to interrupt power levels specified.

Install this product in locations accessible only to qualified personnel. The panel weighs more than 35 lbs. (~16 kg); two people may be required for handling and installing the load center frame.

1.5 Installation Instructions

Please read these instructions carefully before beginning installation. If assistance is required, call Amphenol Network Solutions Technical Support at 509.926.6000 or email us at support@amphenol-ns.com

- Amphenol Network Solutions is not liable for shipping damage. If damaged, notify the carrier and call Amphenol Network Solutions at 509.926.6000 for further recourse.
- Amphenol Network Solutions recommends that you install load straps before installing the load center on the rack. Also, install load straps now for future add-on loads.
- Inspect equipment after unpacking and compare it to the packing list. Immediately report any shipping damage, defects or missing parts to Amphenol Network Solutions at 509.926.6000. Keep all documentation that comes with your shipment.

1. Assign interrupter positions and install load straps for those positions before installing the load center in a rack as follows:

a. Choose interrupter positions for breakers or fuses.

You may mix interrupter ratings and single-and multi-pole interrupters in the same load center. Amphenol Network Solutions recommends not mixing fuses with circuit breakers.

- Avoid mixing non-mid-trip and mid-trip breakers
- Avoid mixing TLS/TPS with TPC fuses (TLS and TPS fuses are compatible but made by different manufacturers)
- Do not use multiple, single-pole breakers or fuses with multi-pole load straps.

b. Record interrupter position(s) and amperage of each intended interrupter.

- To mitigate heat buildup cause by heavy loads $\geq 100A$, plan a space on one side of the interrupters

c. Remove bottom screw holding circuit breaker cover to selected interrupter positions. Refer to Fig. 2.

- Retain screw and cover if you intend to use circuit breakers
- Retain screw but discard cover if you intend to use fuses
- Remove corresponding screw in plastic load-strap support
- Slip receptacle(s) of load strap into plastic load strap receptacle holder and fasten with screw removed in the previous step

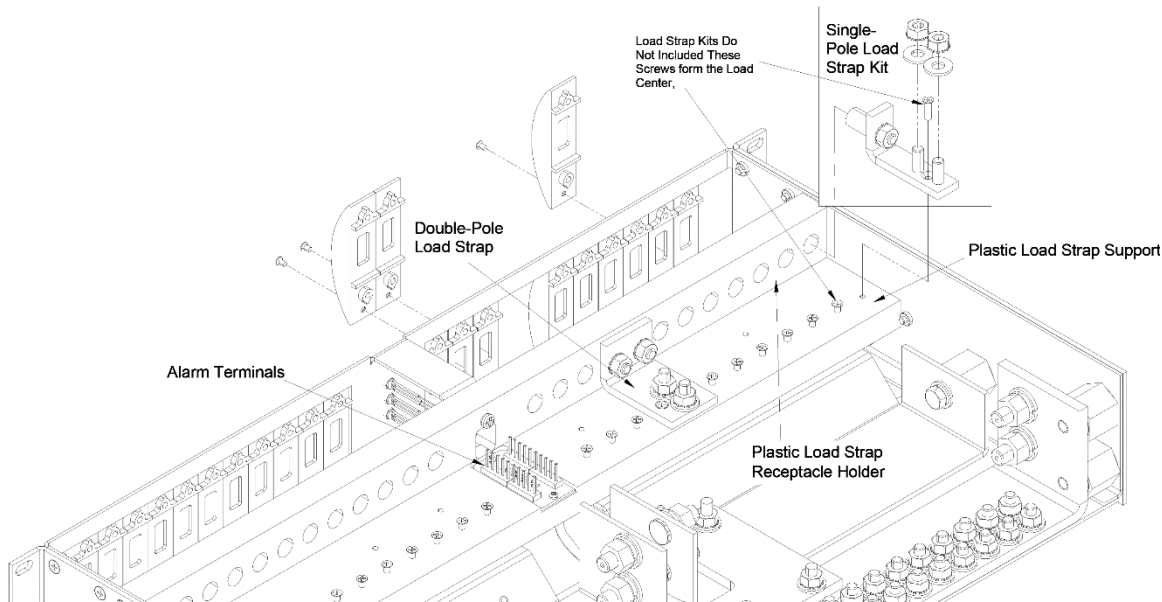


Fig. 2: Installing load straps

- Turn over the load center and check the jumper settings on the alarm board located on the underside of the chassis. Refer to Fig. 3 and 4. The jumpers are set up for REC-4 (non-mid-trip) circuit breakers and fuses. If you plan to use RLS-4 mid-trip circuit breakers, change the jumper setting as indicated.

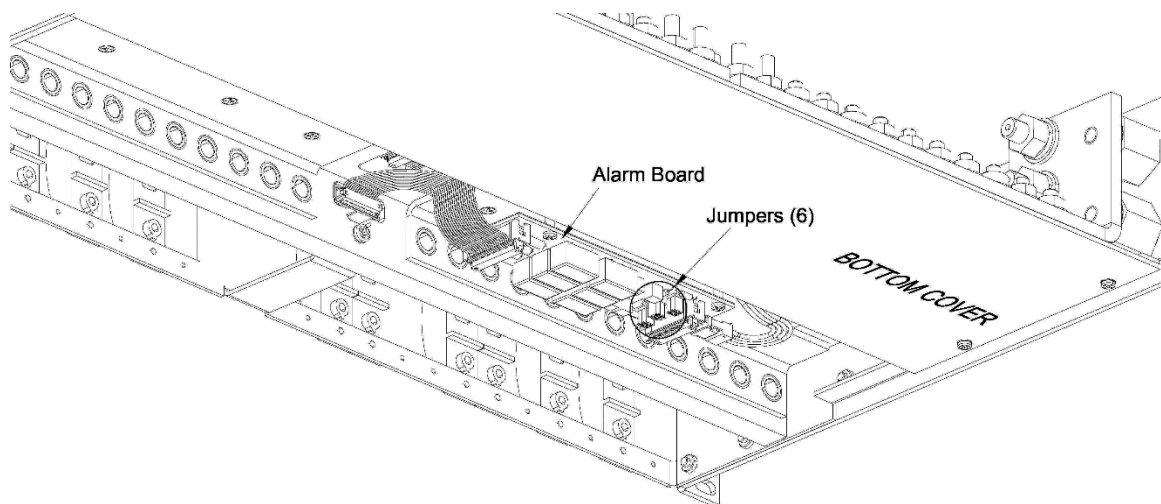


Fig. 3: Alarm board location
(Bottom view of side A)

From the factory, jumpers are set for REC-4 (non-mid-trip) circuit breakers and fuses.

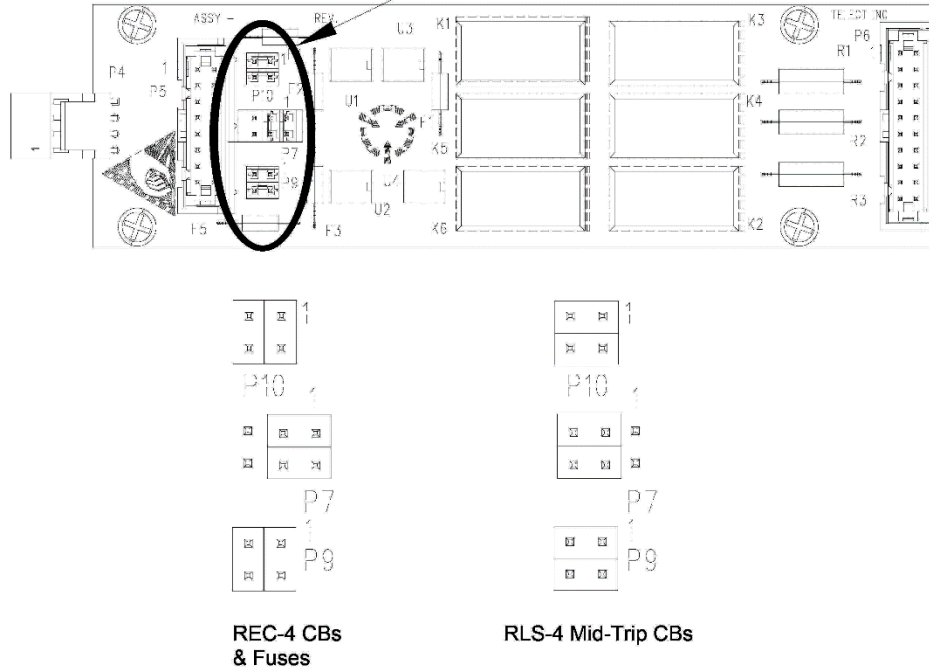


Fig. 4: Alarm board jumper settings

3. If you intend to install alarm wiring for load center and/or bay alarms, consider doing so now before installing the load center in the rack. The alarm terminal is located near the top center of the load center. Refer to Fig. 5.

- a. If you intend the alarm wires to exit at the back of the rack, do not forget to feed alarm wiring from the back to the front of the rack before wire wrapping the alarm pins.
- b. It is possible to use a short, manual wire-wrap tool to install alarm wiring after securing the load center to the rack. If you intend to use a power or larger manual wire-wrap tool, you must install alarm wiring now.

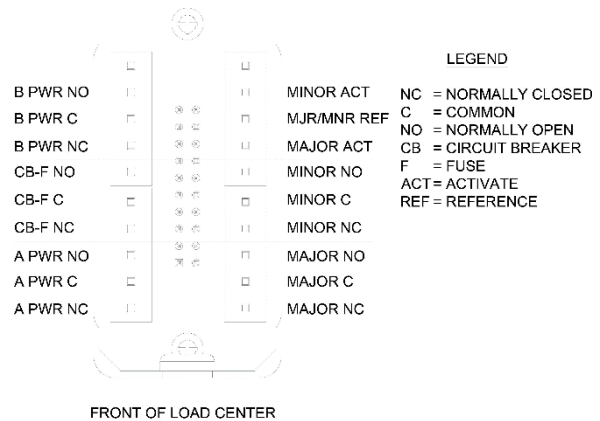


Fig. 5: Alarm wiring

4. Locate an unused rack position and mount the load center using at least two sets of fasteners per side, as shown in Fig. 6.

Mount the panel as high as possible on the rack, leaving at least 1RU of access space above the load center. Tighten screws to 35 in/lb. (4.29 N•m).

Amphenol Network Solutions recommends using a seismic rack for best rigidity.

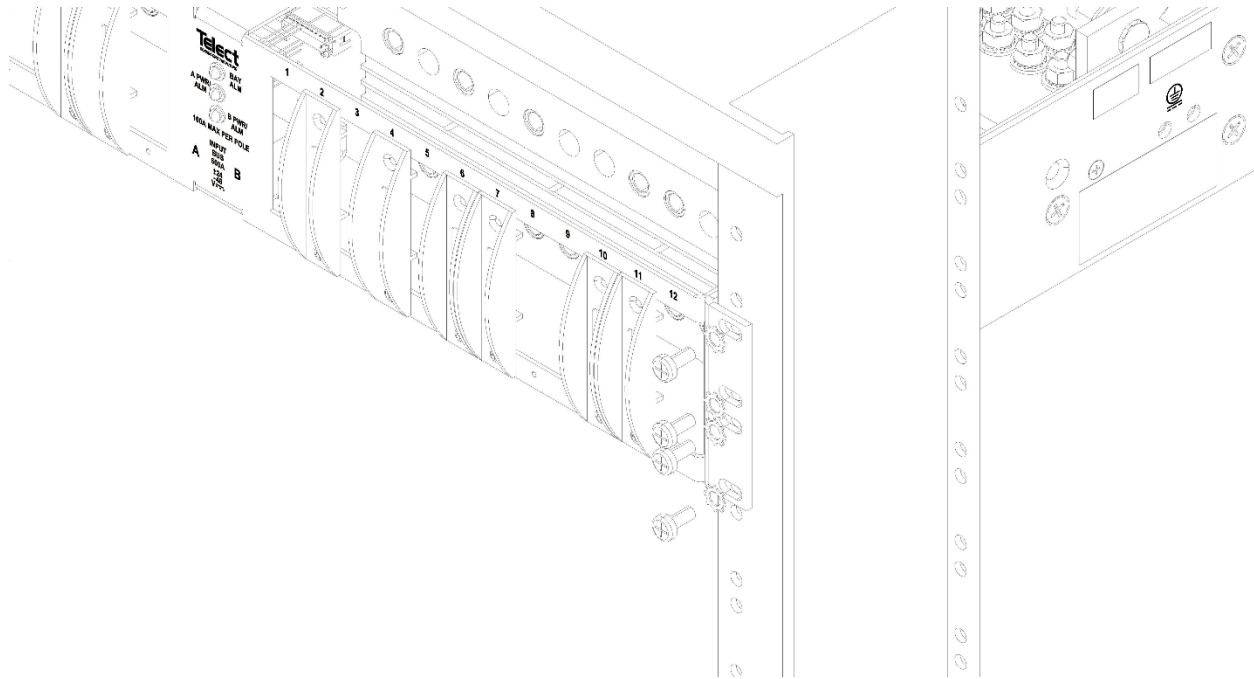


Fig. 6: Rack mounting

⚠ WARNING

WARNING! Failure to properly ground this equipment can create hazardous conditions to installation personnel and to the equipment.

⚠ ALERT

ALERT! Only use components and crimping tools approved by agencies or certifying bodies recognized in your country or region such as Underwriter’s Laboratories (UL), TUV, etc.

5. Use an approved crimping tool to attach an approved, dual-hole compression lug onto suitable grounding wire. (Size of ground depends on input interruption device.)
6. If required, lightly coat antioxidant on lug and grounding surface on side of panel. Connect the lug using 1/4-20 bolts, flat washers and split washers provided, as shown in Fig. 7. Tighten the bolt to 50 in/lb. (5.5 N•m).

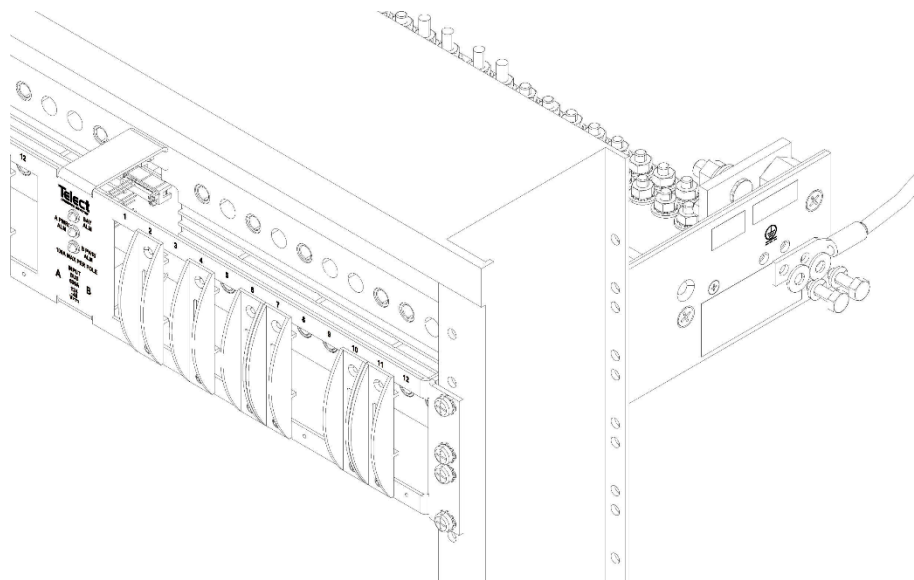


Fig. 7: Ground lug connection

⚠ WARNING

WARNING! Before connecting input power cables, make sure input power to the panel is turned off.

7. Make sure input power is off before connecting the panel’s input cables to the PDU or battery.
8. For input wiring, crimp dual-hole compression lugs onto #1 AWG to 750 MCM copper wires. The choice of input wiring depends on the following criteria:
 - Input interrupt device rating affects size of input wiring.
 - Ambient operating temperature affects the type of input wire insulation. Use the table on the following page to choose the correct temperature-rated input wires. For further information, consult the National Electrical Code (NEC).

Ambient Operating Temperature Range	Max. Current Rating Per Side	Min. Cable Insulation Temperature Rating
-5° to 49°C (23° to 120°F)	600A	75°C (167°F)
49° to 55°C (120° to 131°F)	550A	75°C (167°F)
49° to 55°C (120° to 131°F)	600A	90°C (194°F)

9. Insulate the lug barrels with UL94 V-0 rated heat-shrink tubing.
10. Clean terminals and lugs with a nonabrasive, nonmetallic pad.
11. If required, lightly coat antioxidant on lugs and input BATT and RTN terminals and then connect lugs to input terminals, as shown in Fig. 8. Tighten lugs to 150 in/lb. (~17 N•m), max.

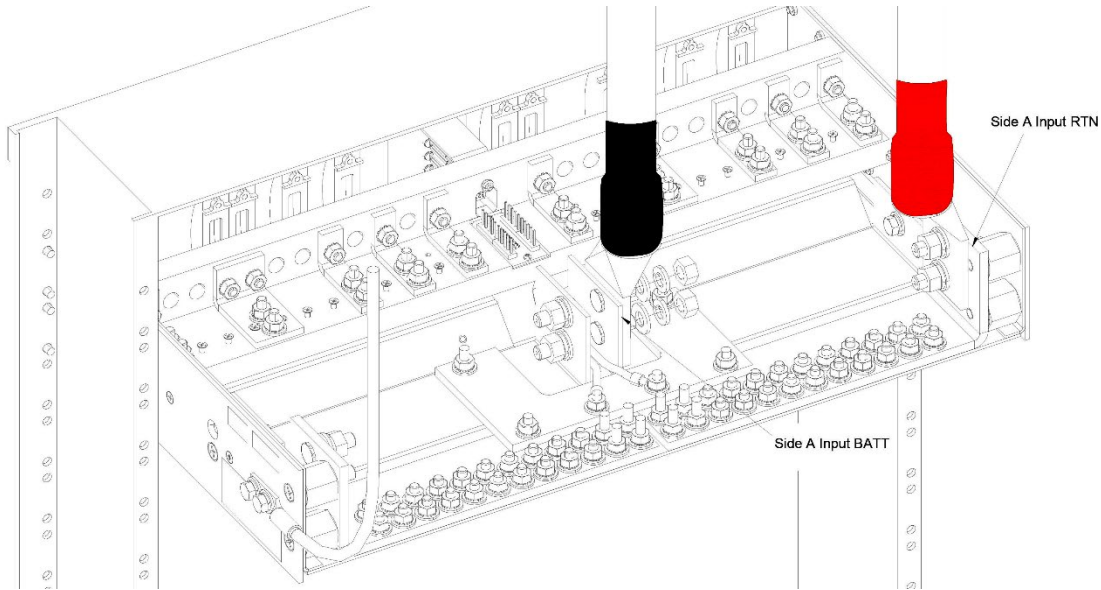


Fig.8: Input lugs

12. Make sure the breaker or fuse holder positions are either empty, off or contain dummy fuses (phony, inoperative, all-plastic slugs).
13. Enable the fuse or breaker at primary distribution unit of battery (750A max.) to turn on Feed A to Side A of load center and then check voltage and polarity at input connectors of the panel.
Verify the following:
 - A PWR LED on front of panel turns green
 - B PWR LED turns red
14. With A PWR LED green (normal operation) — but with B PWR LED red (off or failure operation) — test A PWR relay and contact alarm terminal:
 - Expect continuity (0Ω) between Terminals C and NC
 - Expect an open circuit (∞Ω) between Terminals C and NO

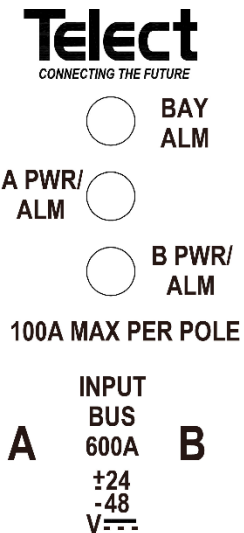


Fig. 9: LED panel

15. Also, test fuse alarm relay contacts at CB-F alarm terminals.

Dual-Feed 600A Load Center Frame

- Expect continuity (0Ω) between Terminals C and NC
 - Expect an open circuit ($\infty\Omega$) between Terminals C and NO
16. Repeat steps 13 and 14 to power up Side B. A PWR and B PWR LEDs must both be green.
 17. Make sure input power is off again before installing output wiring to this device.
 18. For output wiring, crimp dual-hole lugs onto one end of #10 to #2/0 AWG copper wires, as required by NEC. (Work with one output wire at a time.)
 19. Insulate lug barrels with UL94 V-0 rated heat-shrink tubing.
 20. Clean the panel terminal and lugs with nonabrasive, nonmetallic pad.
 21. If required, lightly coat antioxidant on lugs and output BATT and RTN terminals and then connect lugs to terminals, as shown in Fig. 10. (NEC specifies only one lug and load at each output terminal.) Tighten nuts to no more than 50 in/lb. (5.6 N•m), max. Then connect other end of output wire to load.
 22. Install circuit breakers or fuses, as shown in Fig. 11 and 12.
 - a. Use screws provided with circuit breaker or fuse holder to attach cover to breaker or holder. (Use the cover removed previously for circuit breakers. The fuse holder requires a cover.)
 - b. Insert a breaker in the load center frame. (“Line” is on top. Breaker is “upside down” so ON toggle is up.) Or, insert holder in load center frame (“Load” is on top.)
 - c. Fasten the cover to the load center using the screw previously removed with the cover in step 1.
 - d. If applicable, install fuse.

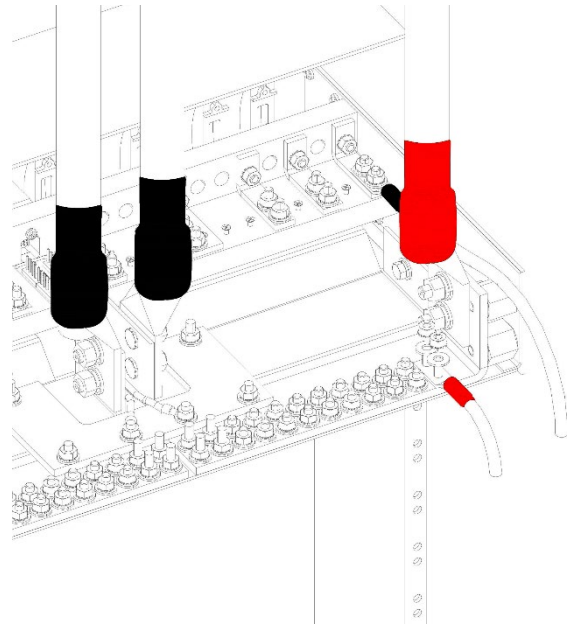


Fig. 10: Output lug connections

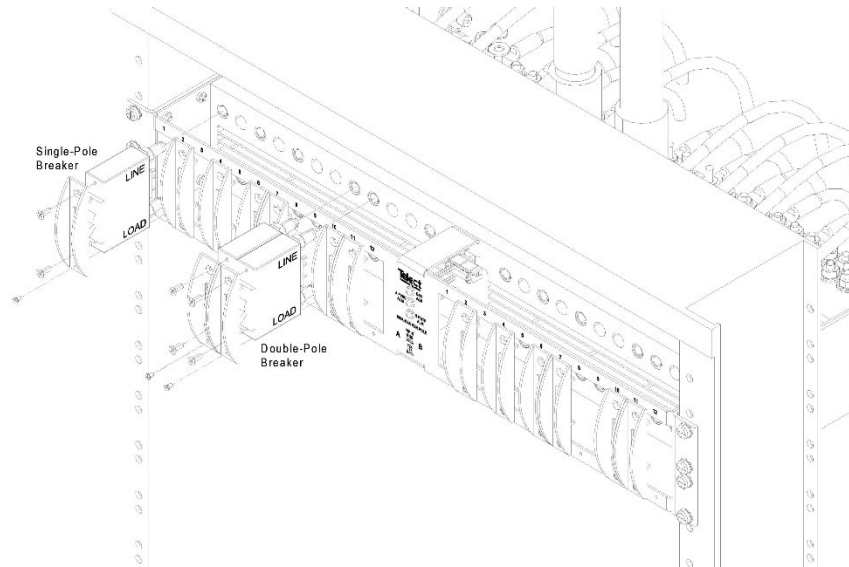


Fig. 11: Installing circuit breakers

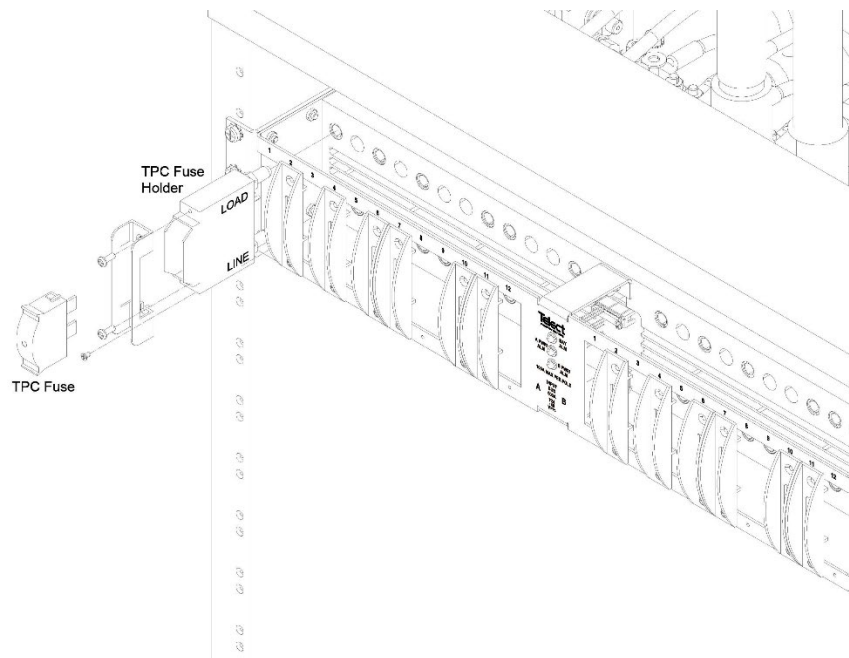


Fig. 12: Installing fuse holders and fuses

23. With the output loads (devices fed by this load center) disabled, re-enable fuses or breakers at primary distribution unit or battery.
24. If applicable, switch circuit breakers ON and then check voltage and polarity *at loads*.
25. If possible, either replace one of the functioning fuses with a blown fuse or switch OFF breaker.

- For a load center with fuses or non-mid-trip circuit breakers, the applicable ALM LED will turn red
 - For a load center with mid-trip breakers, the applicable ALM LED will remain green
26. Check the CB-F alarm terminals. For a load center with fuses or non-mid-trip circuit breakers, expect the following:
- An open circuit ($\infty\Omega$) between Terminals C and NC
 - Continuity (0Ω) between Terminals C and NO
27. For a load center with mid-trip breakers, expect the following:
- Continuity (0Ω) between Terminals C and NC
 - An open circuit ($\infty\Omega$) between Terminals C and NO
28. Re-install operable fuses or switch ON breakers before proceeding.
29. Record circuit assignments in accordance with operating company procedures and guidelines.
30. Lastly, enable equipment loads one at a time to verify proper operation of loads.

1.6 Parts & Accessories

The following tables list optional and replacement items for the load center. For wire sizing and labeling, please refer to *Wire Sizing & Label Convention* (Amphenol Network Solutions Part No. 117995) included with your load center. Order parts and accessories online at amphenol-ns.com

⚠ ALERT

ALERT! Use only UL-listed or UL-recognized component secondary protection devices.

Steps for configuring a panel:

1. Choose vertical or horizontal input.
2. Determine the quantity of load connections required (one load connection per populated fuse or circuit breaker position).
3. Choose multi-pole connections if required.
4. Select circuit breakers or fuses:
 - If fuses, choose TPC or TFD holders
 - If circuit breakers (or fuse holders), select quantity equal to number of load connections
 - Select circuit breaker or fuse amperage values

Panel	Part Number
600A dual-feed 10/10 load center frame, vertical inputs	600CB10
600A dual-feed 10/10 load center frame, horizontal inputs	600CB10-C
600A dual-feed 10/10 load center frame, vertical, loaded	600CB10-VL
600A dual-feed 10/10 load center frame, horizontal, loaded	600CB10-CL
600A dual-feed 12/12 load center frame, vertical inputs	600CB12
600A dual-feed 12/12 load center frame, horizontal inputs	600CB12-C
600A dual-feed 12/12 load center frame, vertical, loaded	600CB12-VL
600A dual-feed 12/12 load center frame, horizontal, loaded	600CB12-CL
Adapter kit to mount 600CB10 in a 23" rack	02117-02+746
Adapter kit for double-pole input ¹	600CB1X-2FA

Load Connections	Part Number
Single-pole	600CB1X-1PK
Double-pole	600CB1X-2PK
Triple-pole	600CB1X-3PK
Four-pole	600CB1X-4PK

Single-pole Breakers	Part Number	Multi-pole Breakers	Part Number
30A	116671	125A (2-pole)	134634
40A	116672	150A (2-pole)	134635
50A	116673	175A (2-pole)	135921
60A	118160	200A (3-pole)	134636
70A	118161	225A (3-pole)	134637
80A	118162	250A (3-pole)	134638
90A	118163	400A (4-pole)	143962
100A	118159	Adapter ² (1" C-C)	600CB08-RPK

Fuses	TPC	TPS	TLS
25A	125441	130476	N/A
30A	125442	130478	N/A
40A	125443	130482	N/A
50A	125444	130484	N/A
60A	125445	130486	N/A
70A	N/A	130488	N/A
75A	125446	N/A	N/A
80A	N/A	N/A	140640
90A	125447	N/A	140641
100A	125448	N/A	140642
125A	125449	N/A	140644
TPC fuse holder ³		129347	
TFD fuse holder (for TPS/TLS fuses) ³		129816	
Fuse holder cover ⁴		600CBXX-CFK	

1 Two kits are required for dual feed inputs

2 Required when using the 600CB1X-3PK or 600CB1X-4PK

3 Holder kits contain fuse holder, cover and fasteners

4 Load connection kits contain receptacle, strap assembly and lug fasteners

Dual-Feed 600A Load Center Frame

! ALERT

ALERT! Only use components and crimping tools approved by agencies or certifying bodies recognized in your country or region such as Underwriter’s Laboratories (UL), TUV, etc.

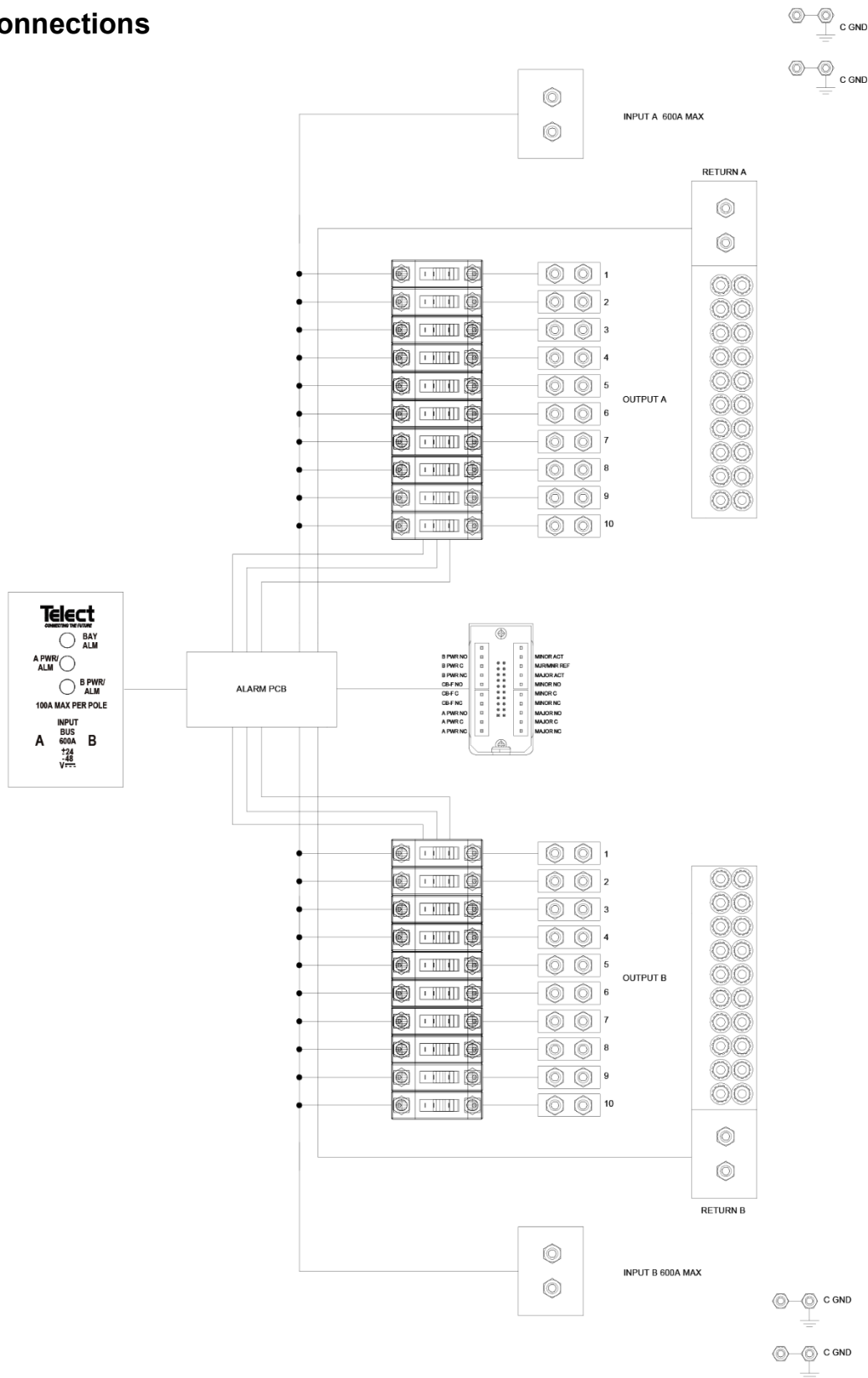
Input Power Lugs

	400 MCM	500 MCM	750 MCM	777.7 MCM
T & B	54216 (Die code 76)	54218 (Die code 87)	—	—
Burndy	YA322TC38 (Die code 19)	YA342TC38 (Die code 20)	YA392NT38 (Die code 24)	YA44L-2NT38-FX (Die code L115)
Panduit	LCD400-38D-6 (Die code 76)	LCD500-38D-6 (Die code 87)	LCDN750-38D-6 (Die code 106)	—

Ground and Circuit Breaker Output Lugs (¹/₄-inch dual-holes on ⁵/₈-inch centers, insulated)

	#8 AWG	#6 AWG	#4 AWG	#2 AWG	#2/0 AWG
T & B	542040410 (Die code 21)	54205 (Die code 24)	54206 (Die code 29)	54207 (Die code 33)	—
Burndy	YA8CL-2TC14 (Die code 49)	YA6CL-2L (Die code 7)	YA4C-2L (Die code 8)	YA2CL-2TC14 (Die code 10)	YA26L2NT14 (Die code 13)
Panduit	LCD8-14A-L (Die code 21)	LCD6-14A-L (Die code 24)	LCD4-14A-L (Die code 29)	LCD2-14A-Q (Die code 33)	LCDN2/0-14A-X (Die code 45)

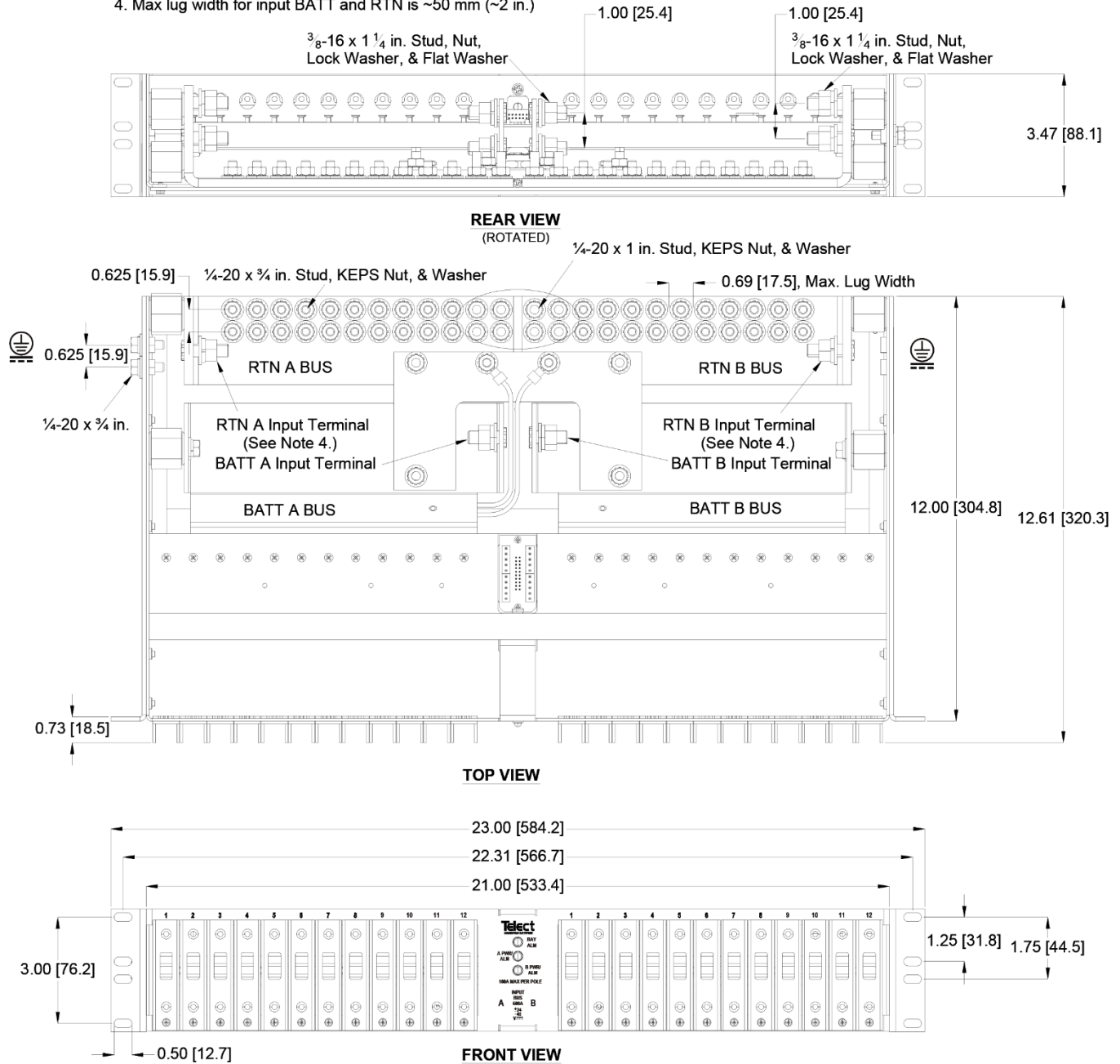
1.7 Interconnections



Dual-Feed 600A Load Center Frame

1.8 Drawings

- NOTES
1. Dimensions are in in. [mm].
 2. Breakers/Fuses sold separately.
 3. Breaker/Fuse line straps sold separately.
 4. Max lug width for input BATT and RTN is ~50 mm (~2 in.)

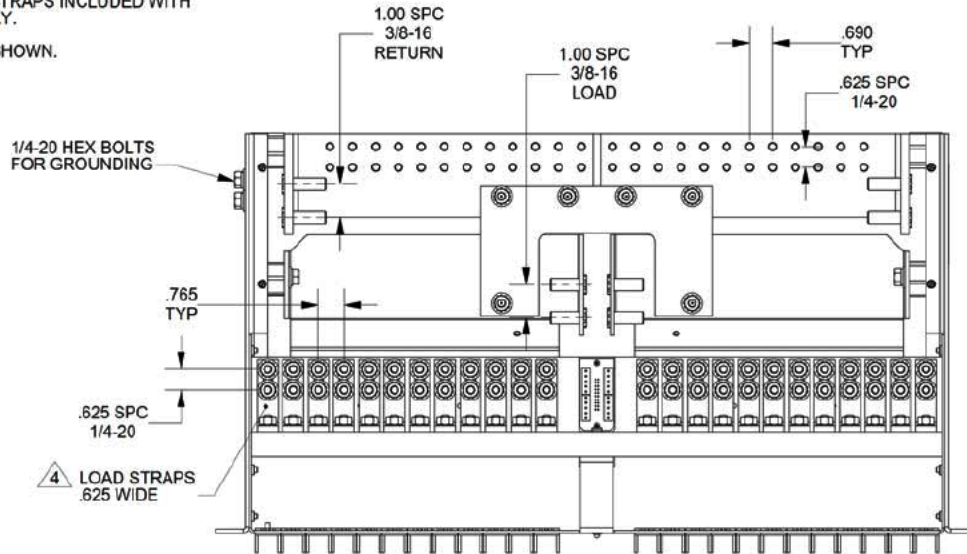


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Dual-Feed 600A Load Center Frame

NOTES: (UNLESS OTHERWISE SPECIFIED)

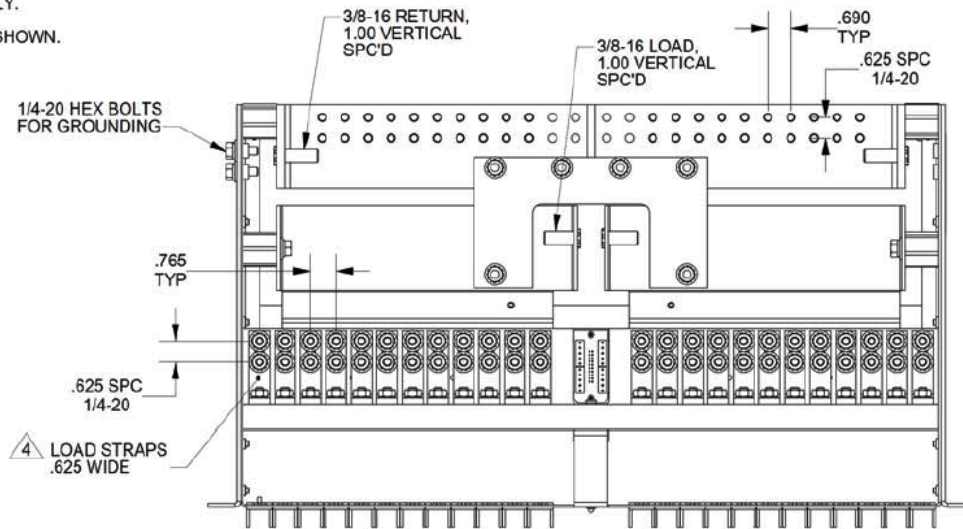
1. CONFORMS IN ACCORDANCE WITH ALL TELECT WORKMANSHIP STANDARDS.
2. DIMENSIONS ARE IN INCHES.
3. DIMENSIONS ARE FOR REFERENCE ONLY.
4. (24) LOAD STRAPS INCLUDED WITH 600CB12-CL ONLY.
5. 600CB12-CL SHOWN.



600CB12-CL – Top View

NOTES: (UNLESS OTHERWISE SPECIFIED)

1. CONFORMS IN ACCORDANCE WITH ALL TELECT WORKMANSHIP STANDARDS.
2. DIMENSIONS ARE IN INCHES.
3. DIMENSIONS ARE FOR REFERENCE.
4. (24) LOAD STRAPS INCLUDED WITH 600CB12-VL ONLY.
5. 600CB12-VL SHOWN.



600CB12-VL – Top View

Dual-Feed 600A Load Center Frame