

Installation Manual

DC Edge™ II

Dual Feed 350 A (4/4) Universal DC Power Distribution Unit



DC Edge™ II

Model 350DF 4/4

Part# 1101-900



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DC Edge™ II Introduction

Transtector's Model 350DF 4/4 PDU is a compact high-power/high-current, universal voltage (± 24 Vdc to -48 Vdc) power panel featuring dual-feed 350 A buses for either primary or secondary power distribution. Model 350DF 4/4 provides power for a wide range of local or remote, wireless and wireline, data and communications applications. The panel fits 19-inch or 23-inch racks.

DC Edge provides four breaker/fuse outputs per bus – up to 125 A per interrupter. Any combination of site-configured interrupters:

- Airpax® LEL single-pole, non-mid-trip breakers up to 100 A;
- Littelfuse TLS fuses, 1 to 125 A; and/or
- Copper Bussmann TPS fuses, 1 to 70 A.

TLS and TPS fuses use telecom fused disconnect (TFD) housings and fuse cartridges manufactured by Canadian Shunt Industries. Breakers, fuses, and TFD assemblies are sold separately by the respective manufacturer.

Buses A and B (input feeds and returns) are mutually isolated, except for the replaceable alarm board which accepts power from either Bus A or B.

The alarm board on the front of the panel contains three LEDs: one for each feed (green for power on and off for power off/failure); and one for the interrupters (off during normal operation and red for a tripped/blown interrupter). Along with the LEDs on the front, Form C dry contacts on the rear provide connectivity to remote audible/visual alarm devices for announcing/displaying power and interrupter failures. Alarm connectors are removable 3 - 40 screw posts for either 22-16 AWG insulated ring lugs (supplied) or bare wire.

All input, return, output, and ground terminals are dual-hole. Transtector supplies a 2 AWG ground lug. All input, output, and ground lug fasteners are supplied.

Model 350DF4/4 conforms to all applicable NEC, UL, Bellcore, and NEBS III standards. Model 350DF4/4 is ROHS compliant.



DC Edge™ II with breakers



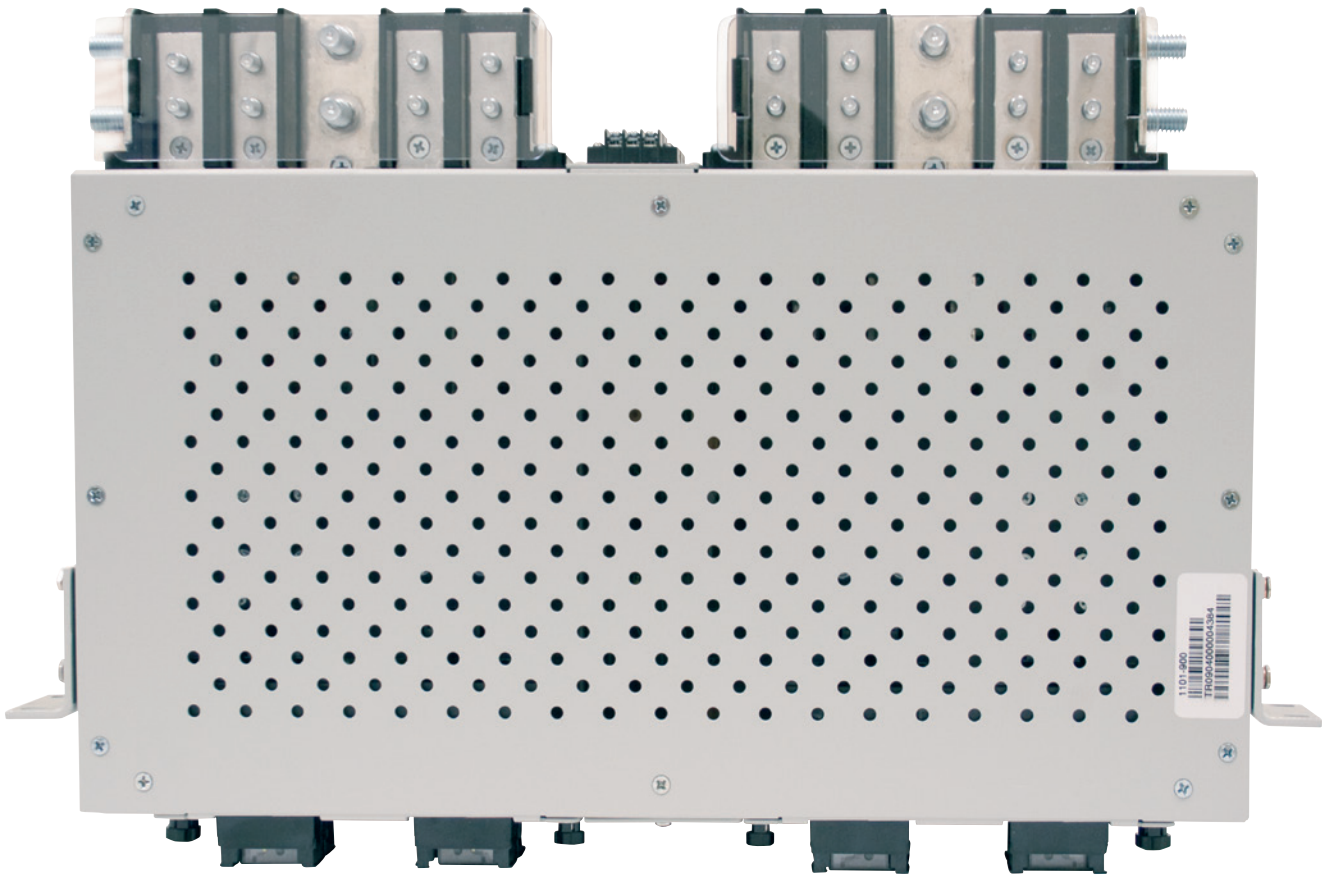
DC Edge™ II with fuses



DC Edge™ II back view



DC Edge™ II side view



DC Edge™ II top view

Electrical	Specification
Nominal Universal Voltage Level	±24 Vdc to -48 Vdc
Operating Voltage Level	±20 Vdc to -60 Vdc
Input Load Rating	350 A per feed, max
Input Interrupt Device	450 A per feed, max
Input Configuration	Dual feed
Output Configuration	Four per feed
Breaker Output Current	100 A max, Airpax single-pole, non-mid-trip LEL
Fuse Output Current	<ul style="list-style-type: none"> ▪ 125 A max, Littelfuse TLS in TFD fuse cartridges ▪ 70 A max, Copper Bussmann TPS in TFD fuse cartridges
Input Wire Size	1/0 AWG to 500 MCM, depending on input interrupter rating
Output Wire Size	8 AWG to 1 AWG, depending on output interrupter rating
Alarms Indicators	<ul style="list-style-type: none"> ▪ Power A and Power B LEDs (2): green for power on; off for power off/failure ▪ Fuse Alarm LED (1): red for tripped/blown interrupter; off for normal operation
Alarm Relay Contacts	Dry Form C for Power A, Power B, and Fuse Alarm failures
Alarm Terminals	Removable 3 - 40 panhead screw posts for either compression lugs (supplied for 22 to 16 AWG) or bare wire binding
Relay Contact Rating	220 Vdc, 3 A
DC Fault Rating	>10 kA

Mechanical	Specification
Input Terminals	Dual 3/8-16 studs on 1" centers. (Tongue width of lug must be no greater than 1 1/4".)
Output Load Terminals	Dual 1/4-20 studs on 5/8" centers. (Tongue width of lug must be no greater than 3/4".)
Ground Terminal	Dual 1/4-20 threaded holes on 5/8" centers. Transtector includes a ground lug for a 2 AWG ground conductor.
Rack Chassis Material	16 gauge CRS, telecom grey powder coat.
Weight (out of box)	16.5 lbs (7.5 kg)
Weight (shipping)	17.5 lbs (8 kg)
Rack Chassis Dimensions (Nominal) ¹	1.7" H x 17.0" W x 11.5" D (43 mm x 305 mm x 292 mm)
Rack Mounting	1RU, 19" per EIA Standard RS-310-D ² . Panel can be mounted flush to rack or extended up to 5" in 1 1/4" increments.
Rear Panel Safety	Snap-in clear BATT terminal covers, provided
Environmental	Specification
Storage Temperature	-40°C to 65 °C
Operating Temperature	-40°C to 55 °C
Relative Humidity	90% (non condensing)
Compliance	Standard
Bonding & Grounding	NEC 800.100 & 830.100
Safety	UL 60950, Listed
Environmental & Shock	GR-63-CORE, GR-1089-CORE, NEBS Level III
Material Safety	RoHS compliant

¹ See Page 25 for detailed dimensions.

² Brackets are included for both 19-inch and 23-inch racks.

Factors Affecting Installation

Elevated Operating Ambient

If installed in a closed or multi-unit rack assembly, the operating ambient temperature of the rack environment may be greater than room ambient. Therefore, consideration should be given to installing the equipment in an environment compatible with the maximum ambient temperature (T_{ma}) specified by the manufacturer.

Reduced Air Flow

Installation of the equipment in a rack should be such that the amount of airflow required for safe operation of the equipment is not compromised.

Mechanical Loading

Mounting of the equipment in the rack should be such that a hazardous condition is not achieved due to uneven mechanical loading.

Circuit Overloading Consideration

Consideration should be given to the connection of the equipment to the supply circuit and the effect that overloading of the circuits might have on over-current protection and supply wiring. Appropriate consideration of equipment nameplate ratings should be used when addressing this concern.

Reliable Earthing

Reliable earthing of the rack-mounted equipment should be maintained. Particular attention should be given to supply connections other than direct connections to the branch circuits (for example, use of power strips).

Disconnect Device

A readily accessible disconnect device should be incorporated in the building installation wiring.

Installation Directions

CAUTION



This product must be installed only by qualified personnel. Any service to this product must be performed only by qualified personnel.

The product is intended for installation in a restricted access area.

CAUTION



Do not install telecom fused disconnect (TFD) housings with load fuse inserted in the fuse cartridges.

CAUTION

Only use tools (for example, crimping tools, dies) and components (for example, breakers, fuses, TFD assemblies) approved by recognized agencies and authorities (for example, UL, TUV, NEC).

DANGER




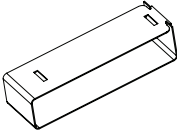

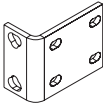
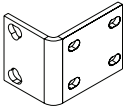

Before connecting input power cables make sure input power to panel is turned off.

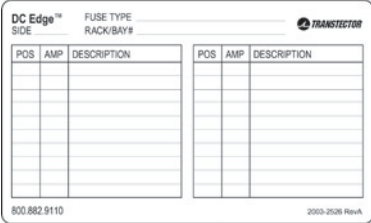


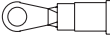


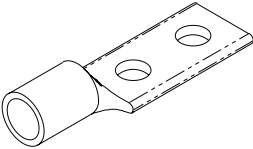
Read and understand these instructions before installing this product. If necessary, contact Transtector for technical assistance: by phone at 1.800.882.9110 or 208.772.8515. Or email us at info@transtector.com.




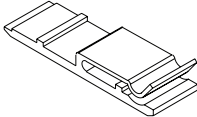
1. Inspect shipping container.
If damage is suspected, request that the carrier's representative be present during unpacking.
Note: Transtector is not liable for damages incurred during shipping.
2. During unpacking, inspect panel for damage.
If damaged, contact the carrier. Report details of damage to Transtector by phone at 1.800.882.9110 or 208.772.8515, or by email at info@transtector.com.
3. Check contents of accessory kit, as listed in the following table.
If any items are missing, contact Transtector by phone at 1.800.882.9110 or 208.772.8515, or by email at info@transtector.com.
4. Find the designation card holder in the accessory kit. Peel off release paper and place card holder on top of panel so that opening of card holder faces the edge of the panel.
5. If required, prior to fastening the 19-inch or 23-inch brackets to the panel, *lightly* coat the bracket's contacting surface – between the bracket and the panel – with an anti-oxidant.
6. Fasten 19-inch or 23-inch rack brackets to panel using supplied fasteners (eight, 10-32 cap screws and split lock washers). (See the "Bracket Installation" on page 12) Torque fasteners to no greater than 23.7 inch pounds (~2.68 Newton meters).

Note: Panel brackets provide flush front-face mounting or extended mounting up to 5 inch in 1 1/4 increments.

Accessory List

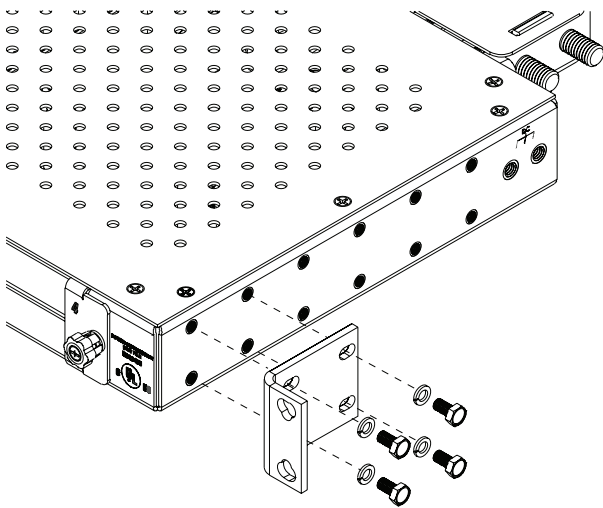
Accessory	Purpose	Quantity	Illustration
Flat Washer 3/8" ID x 7/8" OD	Input Connections	8	
Cap Screw 10 - 32 x 3/8"	Bracket Installation	8	
Lock Washer #10, Split	Bracket Installation	8	
Transparent Cover	Terminal Covering	2	
Keyhole Snap	Secure Cover	6	
19-inch Mounting Bracket	Rack Mounting	2	
23-inch Mounting Bracket	Rack Mounting	2	
KEPS Nut 1/4 - 20	Output Connections	32	

Accessory	Purpose	Quantity	Illustration
Designation Card	Recording Output Assignments	1	
Flat Washer 1/4" ID	Output & Ground Connections	34	
Flat Washer 3/8" ID	Input Connections	8	
Ring Lugs, Insulated	22 - 16 AWG Alarm Connections	9	
Cap Screw 1/4 - 20	Ground Connection	2	
Lock Washer 1/4" ID, Split	Ground Connection	2	
Two-Hole Lug for 2 AWG	Ground Connection	1	

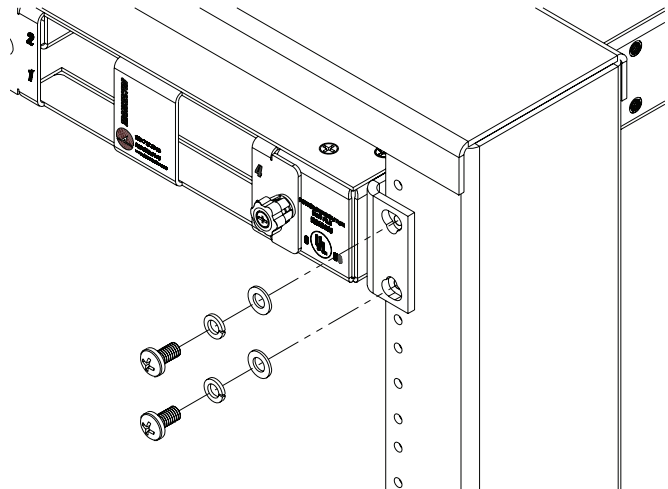
Accessory	Purpose	Quantity	Illustration
Flat Washer #12	Installing Panel in Rack	4	
Lock Washer #12, Split	Installing Panel in Rack	4	
Screw #12 Thread-Forming, Phillips Head	Installing Panel in Rack	4	
Blank Cover, Black	Covering Unused Output Interrupter Positions	8	

Mounting Panel to Rack

7. Select a location for the DC Edge panel on the rack.



Bracket Installation



Rack Installation

Choose to mount power panels at topmost or highest possible rack position.

Note: Panel weighs approximately 16.5 lbs (7.5 kg). Take care to support the panel when installing panel to rack. Two persons may be required in the following step.

8. Mount panel to rack using two sets of supplied fasteners per side (total of four 12 - 24 thread-forming, Phillips-head screws, split lock washers, and flat washers.), as shown in “Rack Installation” above. Tighten screws to no greater than 35 inch pounds (~4.29 Newton meter).

Torque Rating Chart

Fastener Connections	Maximum Torque (inch pounds)	Maximum Torque (Newton meter)
10 - 32	23.7 inch pounds	2.68 Newton meter
12 - 24	35 inch pounds	4.29 Newton meter
1/4 - 20	55 inch pounds	6.2 Newton meter
3/8 - 16	180 inch pounds	19.2 Newton meter

DANGER



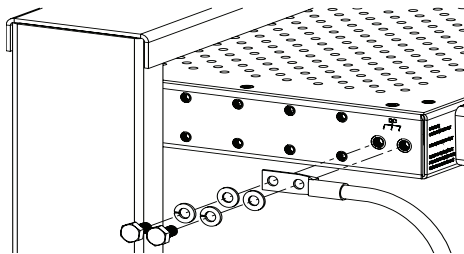
This product must be properly grounded to the facility’s dc ground bus. Failure to do so is dangerous to personnel and may result in equipment malfunction.

Ground Wiring

9. Crimp ground lug (supplied) to a 2 AWG stranded copper wire.

One 2 AWG ground wire is the minimum requirement for a pair of 450 A input interrupters feeding this panel.

10. If required, lightly coat anti-oxidant on contacting surface between ground lug and panel (near right-rear corner).



Ground Wiring

11. Fasten lug to panel using two 1/4-20 cap screws, split lock washers, and flat washers – all supplied. Tighten to no greater than 55 inch pounds (~6.2 Newton meter).

DANGER

Check that input power to panel is off or disabled before installing input cabling.

Input Wiring

12. See the note that follows and then slip UL 94V-0 heat-shrink tubing over the ends of 1/0 AWG to 500 MCM stranded copper input wires.

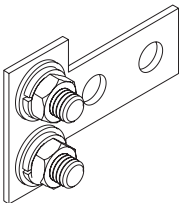
Transtector suggests using FLEX copper cable wherever possible for input and output cabling.

Note: A significant amount of cable mass can be reduced by using half-tap or other cable reducers. This is especially important when running large amperage (for example, 350 A) to each side of the panel.

Cable conductors in a raceway require de-rating due to tight bundling of multiple cables. Tight bundling causes heat rise (NEC 310.16). In contrast, cable conductors in free air allow much higher current ratings as long as the cable feeds remain in free air outside of the bundled cable in the raceway. If cable reduction is desired, limit the reduced cable loop length from the above cable tray to the panel to no more than 15 ft. (Refer to NEC Free-Air Table 310.17.)

Always rely on and follow established operating company and regulatory practices and procedures.

13. Use approved tooling to crimp straight, 45°, or 90° dual-hole compression lugs (3/8-inch holes on 1-inch centers) onto ends – DC Edge ends – of input wiring.



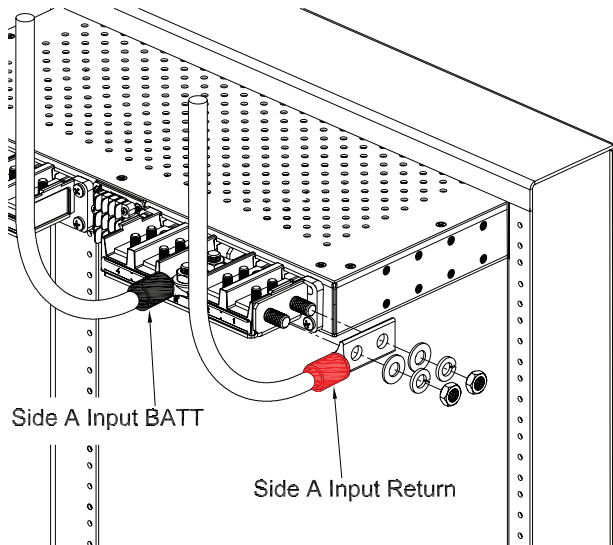
Return Input Re-Orientation
Part #2300-116

Note: Transtector offers a return re-orientation plate (Transtector Part No. 2300-116, shown above) to change the orientation of the return terminals to allow lugs to be installed vertically rather than horizontally.

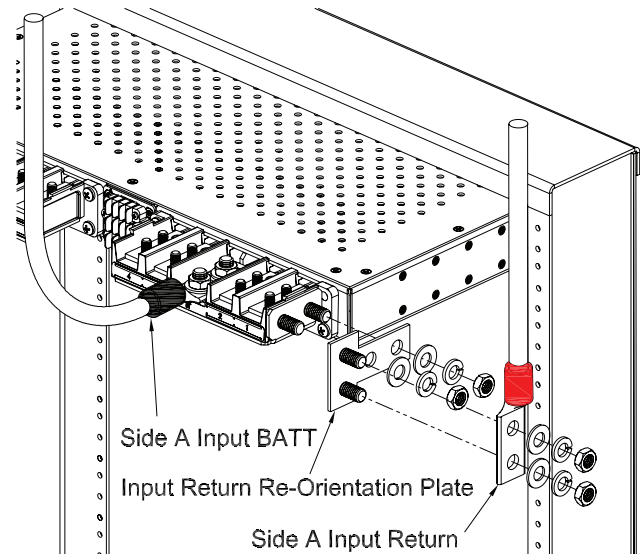
14. Use a nonabrasive, nonmetallic pad, such as Scotch-Brite®, to clean input terminals and lugs.
15. Heat shrink UL 94V-0 tubing onto lug barrels.
16. If required, lightly coat anti-oxidant on contacting surfaces between input lugs and BATT and return input terminals.
17. Fasten lugs to BATT and return input terminals using supplied hardware (two 3/8-16 jam nuts,

external tooth lock washers, and flat washers per terminal). Tighten to a maximum of 180 inch pounds (~19.2 Newton meter).

18. Make sure DC Edge breaker/fuse positions are empty.



Connecting Input Wiring With Horizontal Return Lug Orientation



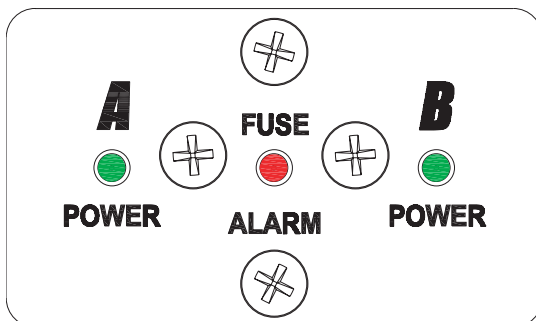
Connecting Input Wiring With Vertical Return Lug Orientation

19. Turn on or enable fuse, breaker, or other disconnect device to feed power to Side A of DC Edge panel.

Test Voltage

20. Test voltage and polarity at input terminals of DC Edge panel. Also, expect that

- POWER A status LED is lit (green), and
- POWER B and FUSE ALARM LEDs are off.



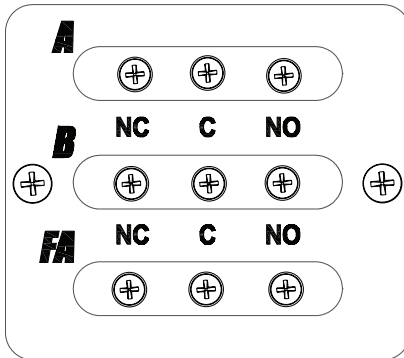
Status LEDs

Test Continuity

21. Test continuity between pairs of power and alarm terminals:

For power **A** terminals –

- Expect continuity (0 Ohms) between **C** and **NC**;
- Expect an open circuit (∞) between **C** and **NO**.



Alarm Terminals

Note: Normal conditions, that is, normally open (**NO**) and normally closed (**NC**), are for a normally functioning panel with power on and no interrupters tripped or blown.

Power B Terminals

For power **B** terminals –

- Expect an open circuit (∞) between **C** and **NC**;
- Expect continuity (0 Ohms) between **C** and **NO**.

Fuse Alarm Terminals

For **FA** (fuse alarm) terminals –

- Expect continuity (0 Ohms) between **C** and **NC**;
- Expect an open circuit (∞) between **C** and **NO**.

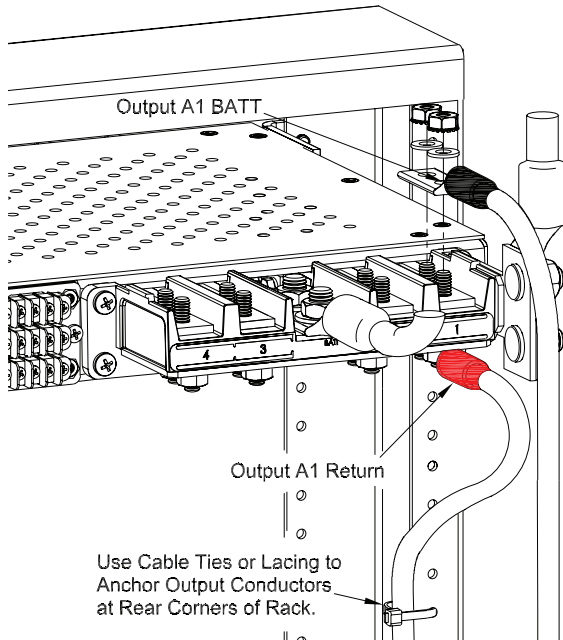
22. Repeat Steps 19 through 21 for Side B. Expect that the POWER B LED turns green and that the power **A** and **B** alarm terminals exhibit the same open/continuity status as expected in Step 21.

Output Wiring

23. Slip UL 94V-0 heat-shrink tubing over the DC Edge ends of 8 AWG to 1 AWG stranded copper output wires.

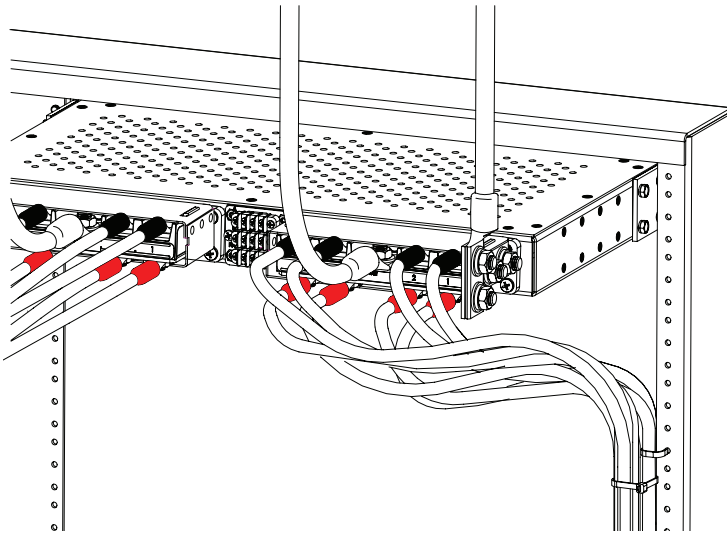
Size of output conductors depends on current rating of output circuit breakers or fuses to be installed in panel.

24. Use approved tooling to crimp dual-hole compression lugs ($\frac{1}{4}$ -inch holes on $\frac{5}{8}$ -inch centers) onto DC Edge ends of output wiring.
25. Use a nonabrasive, nonmetallic pad, such as Scotch-Brite®, to clean output terminals and lugs.
26. Heat shrink UL 94V-0 tubing onto lug barrels.
27. If required, lightly coat anti-oxidant on contacting surfaces between output lugs and terminals.
28. Fasten first pair of BATT/return lugs to output terminals using supplied hardware (two $\frac{1}{4}$ - 20 KEPS nuts and flat washers per terminal.), as shown in the following illustration. Tighten to a maximum of 55 inch pounds (~ 6.2 Newton meter).



Connecting Output Wiring

29. Use cable ties or lacing cord to fasten the first pair of conductors to the near-rear corner of the rack.
30. Continue with the next pair of output conductors – tying off that pair to the previous pair.
31. After connecting output lugs to terminals and bundling/anchoring all conductors to the rear edges of the rack, install transparent covers from accessory kit over BATT and return terminals.



Output Cable Management

32. Connect opposite ends of output conductors to the output loads.
33. Turn off or disable fuses, breakers, or other disconnect devices feeding power to Sides A and B of DC Edge panel.

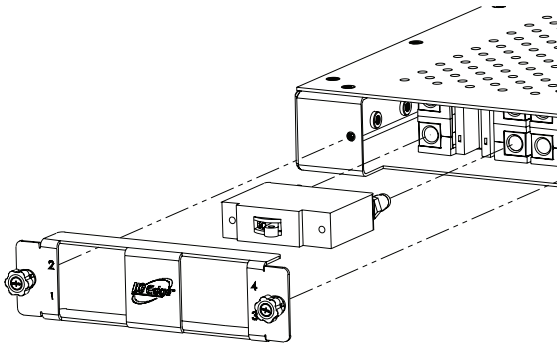
Note: The following steps deal with installing fuses and/or breakers. Good practice involves turning off power to one side or the other of this PDU when installing or replacing breakers or fuse cartridges. When that's not possible, rely on and follow established operating company or regulatory practices. However,

- Never install breakers in a live circuit with the operator handle switched on.
 - Never install a TFD housing in a live circuit with a fuse cartridge containing an operable fuse.
34. During installation of interrupters, make sure that circuit breakers are switched off and/or that TFD fuse cartridges are without fuses.*
 35. Install circuit breakers (off) and/or TFDs (without fuses) as shown in the following illustrations.

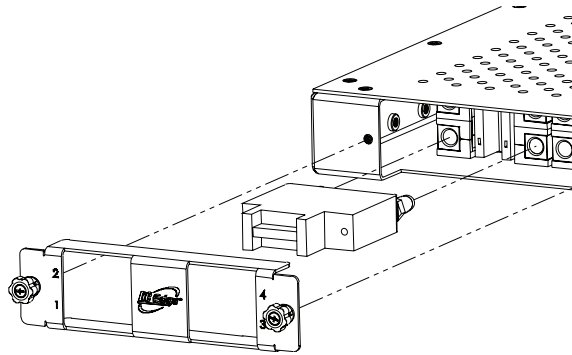
The circuit breakers and TFD housings must be oriented correctly so that the Side A and B bezels will fit over the exposed face of the interrupters.

36. *If applicable*, remove TFD fuse cartridges from TFD housings and install the TPS and/or TLS fuses. (The housings are keyed to prevent mis-orientation of the fuse cartridges.)

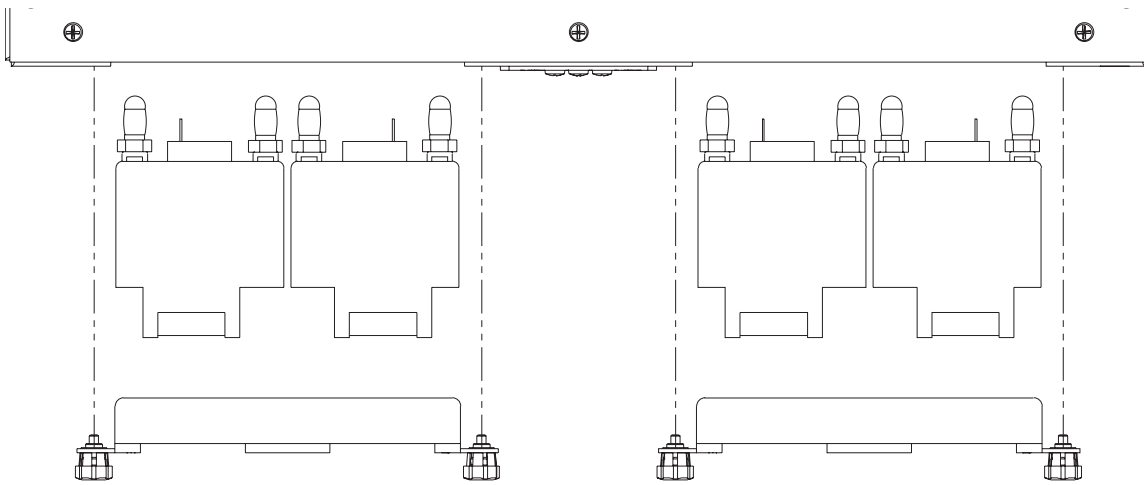
* For proper alarm relay operation, insure that the alarm contact tabs are not bent or deformed prior to inserting into the panel.



Installing Circuit Breakers



Installing TFDs



Interrupter Orientation

Use of Designation Card

37. When installing fuses, record the fuse ratings and positions on the slip-out designation card shown in the following illustration.

DC Edge™			FUSE TYPE _____			
SIDE _____			RACK/BAY# _____			
POS	AMP	DESCRIPTION	POS	AMP	DESCRIPTION	
800.882.9110			2003-2526 RevA			

Designation Card

38. If applicable, turn on breakers.
39. Disable DC Edge output loads at the equipment load.
40. Turn on or enable fuses, breakers, or other disconnect devices to feed power to both sides of DC Edge panel.
41. Expect that the POWER LEDs are on (green) and the FUSE ALARM LED is off.
42. If applicable, turn off one of the breakers. Expect that the FUSE ALARM LED is on (red).

Check the **FA** (fuse alarm) terminals on the rear of the panel. Expect –

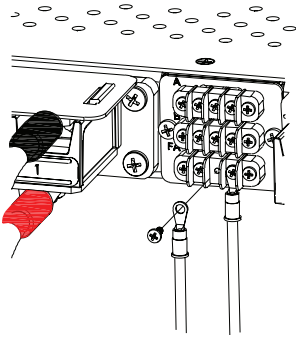
- An open circuit (∞) between **C** and **NC**, and
 - Continuity (0 Ohms) between **C** and **NO**.
43. If applicable, temporarily remove a GMT alarm fuse from a fuse cartridge and replace with a blown GMT.

Expect that the FUSE ALARM LED is on (red). Check the **FA** (fuse alarm) terminals for the same conditions given for a turned off breaker in the preceding step.

44. Make sure all breakers are on and all operable GMT alarm fuses are re-installed.
45. Test power and polarity at the input of each output load.
46. If required, connect alarm wires to the alarm terminals using either ring lugs (provided) or bare wire.

Nine ring lugs are supplied. Only six are necessary.

47. Enable DC Edge output loads at the equipment loads. Check loads for proper operation.



Alarm Wiring

MAINTENANCE

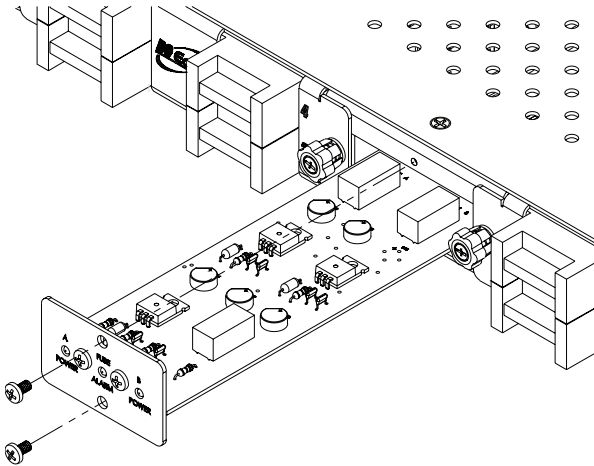
DC Edge panels require no scheduled maintenance.

ALARM BOARD REPLACEMENT

The alarm board (Transtector Part No. 2250-800) along with the status LEDs can be replaced with power on. The alarm board rests on slides and is edge connected at the far end.

To replace the alarm board, refer to the following illustration and remove two screws: one near the top of the alarm face plate and one near the bottom. Then, pull to disconnect and slide out the alarm board.

If installing a replacement alarm board, remove and retain the face plate and screws.



Removing Alarm Board

SERVICE

For service (warranty or otherwise) contact Transtector by phone at 1.800.882.9110 OR 208.772.8515, or by email at info@transtector.com to obtain an RMA number. Transtector will contact you with cost of repair or replacement (if applicable) before proceeding with service.

CIRCUIT BREAKERS

The DC Edge panel uses Airpax LEL, single-pole, non-mid-trip DC breakers with bullet terminals:

Rating	Airpax Part No.
5 A	LELB1-1REC4-52-5.0-1-01-V
10 A	LELB1-1REC4-52-10.0-1-01-V
20 A	LELB1-1REC4-52-20.0-1-01-V
25 A	LELB1-1REC4-52-25.0-1-01-V
30 A	LELB1-1REC4-52-30.0-1-01-V
40 A	LELB1-1REC4-52-40.0-1-01-V
50 A	LELB1-1REC4-52-50.0-1-01-V
60 A	LELB1-1REC4-52-60.0-1-01-V
70 A	LELB1-1REC4-52-70.0-1-01-V
80 A	LELB1-1REC4-52-80.0-1-01-V
90 A	LELB1-1REC4-52-90.0-1-01-V
100 A	LELB1-1REC4-52-100.0-1-01-V

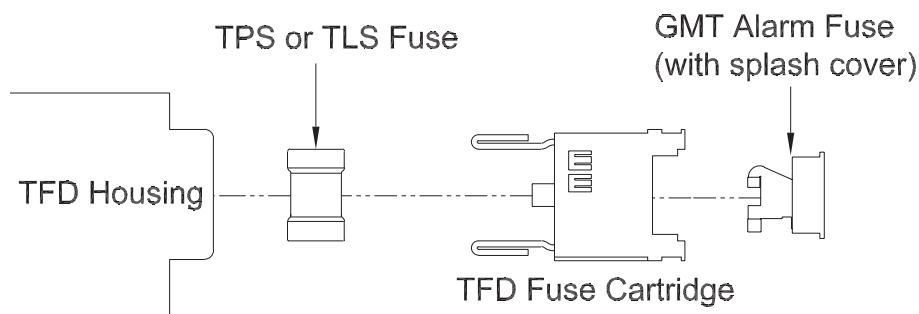
FUSES

All TLS and TPS fuses are rated for up to 170 Vdc and require a telecom fused disconnect (TFD) housing and fuse cartridge [Canadian Shunt Industries Part No. TFD-101-011-01 (Alarm C)].

TLS and TPS fuse are non-indicating, meaning that if the fuse blows the alarm card receives no feedback to detect that fact. TFDs are designed with a .18 A GMT alarm fuse that will blow when the TLS or TPS blows providing feedback to the alarm card.

Rating	Littelfuse TLS Part No.	Bussmann TPS Part No.
1 A	TLS001	TPS-1
3 A	TLS003	TPS-3
5 A	TLS005	TPS-5
6 A	TLS006	TPS-6
10 A	TLS010	TPS-10
15 A	TLS015	TPS-15
20 A	TLS020	TPS-20
25 A	TLS025	TPS-25
30 A	TLS030	TPS-30
35 A	TLS035	TPS-35
40 A	TLS040	TPS-40
50 A	TLS050	TPS-50
60 A	TLS060	TPS-60
70 A	TLS070	TPS-70
80 A	TLS080	
90 A	TLS090	
100 A	TLS100	
110 A	TLS110	
125 A	TLS125	

To replace a TLS or TPS fuse, pull out the TFD fuse cartridge from the TFD housing. (See the following illustration.) After fixing the cause of the blown fuse, swap out the bad fuse with a new fuse. Pull out the blown GMT fuse and replace with a new .18 A GMT, with or without the splash guard (lens) shown in the illustration.






Replacing Fuses

Replacement .18 A GMTs without a splash guard can be ordered from Copper Bussmann (Part No. GMT 18/100 A). Replacement .18 A GMTs with or without splash guards can be ordered from Littelfuse in quantities of 100 (Littelfuse Part No. 0481.180HXL with splash guard and Part No. 0481.180H without splash guard)




LUGS

Nine 22 to 16 AWG ring lugs for alarms and a 2 AWG dual-hole ground lug are included with the DC Edge panel.

For input and output wiring choose from the following:

Lug Style	Wire Size	Burndy Part No.	Panduit Part No.
Output Lugs (1/4" dual holes on 5/8" centers)			
Straight 	14-10 AWG	YAV102TC14	LCD10-14A-L
	8 AWG	YAV102TC14	LCD10-14A-L
	6 AWG	YA6CL-2TC14	LCD6-14A-L
	4 AWG	YA4CL-2TC14	LCD4-14A-L
	2 AWG	YA2CL-2TC14	LCD2-14A-Q
	1 AWG	YA1CL-2TC14	LCD1-14A-E
45° 	14-10 AWG	YAV102TC14-45	LCD10-14AH-L
	8 AWG	YA8CL-2TC14-45	LCD8-14AH-L
	6 AWG	YA6CL-2TC14-45	LCD6-14AH-L
	4 AWG	YA4CL-2TC14-45	LCD4-14AH-L
	2 AWG	YA2CL-2TC14-45	LCD2-14AH-Q
	1 AWG	YA1CL-2TC14-45	LCD1-14AH-E
90° 	14-10 AWG	YAV102TC14-90	LCD10-14AF-L
	8 AWG	YA8CL-2TC14-90	LCD8-14AF-L
	6 AWG	YA6CL-2TC14-90	LCD6-14AF-L
	4 AWG	YA4CL-2TC14-90	LCD4-14AF-L
	2 AWG	YA2CL-2TC14-90	LCD2-14AF-Q
	1 AWG	YA1CL-2TC14-90	LCD1-14AF-E

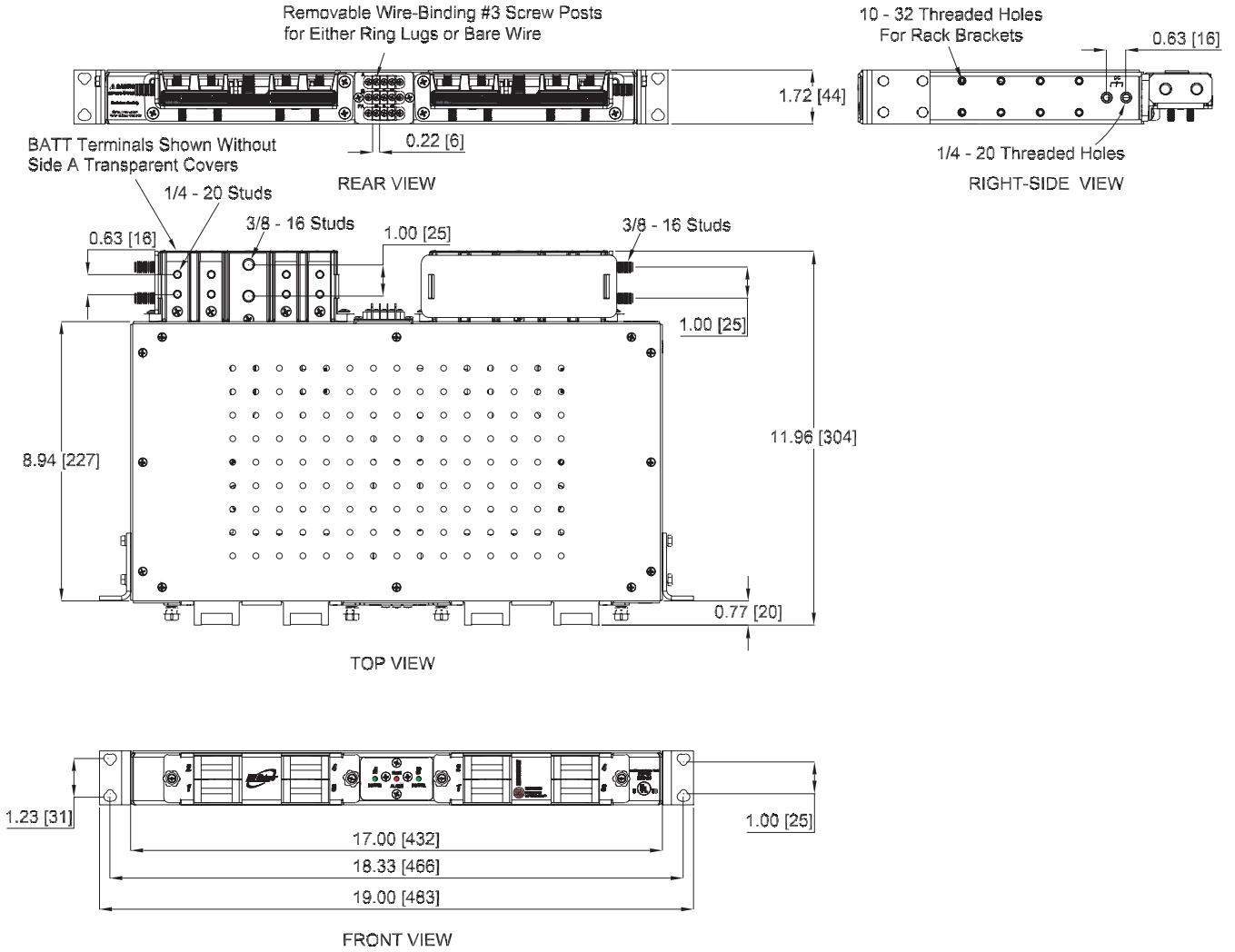
Input Lugs (3/8" dual holes on 1" centers)

Straight 	1/0 AWG	YA25L-2TC38	LCD1/0-38D-X
	2/0 AWG	YA26L-2TC38	LCD2/0-38D-X
	6 AWG	YA28L-2TC38	LCD4/0-38D-X
	250 MCM	YA29L-2TC38	LCD250-38D-X
	350 MCM	YA31L2NT38	LCDN350-38D-X
	500 MCM	YA34L2NT38	LCDN500-38D-6
45° 	1/0 AWG	YA25L-2TC38-45	LCD1/0-38DH-X
	2/0 AWG	YA26L-2TC38-45	LCD2/0-38DH-X
	6 AWG	YA28L-2TC38-45	LCD4/0-38DH-X
	250 MCM	YA29L-2TC38-45	LCD250-38DH-X
	350 MCM	–	–
	500 MCM	–	–
90° 	1/0 AWG	YA25L-2TC38-90	LCD10-14A-L
	2/0 AWG	YA26L-2TC38-90	LCD10-14A-L
	6 AWG	YA28L-2TC38-90	LCD6-14AF-L
	250 MCM	YA29L-2TC38-90	LCD4-14A-L
	350 MCM	–	–
	500 MCM	YA38L2NT38FX90 ⁴ YA38L2TC38E1FX90RH ⁵	–

⁴ Special order.⁵ Special order. YA38L2TC38E1FX90RH is a lug with a 90° horizontal bend rather than a 90° vertical bend.

DIMENSIONS

- NOTES: 1. Panel does not include interrupters. Breakers, fuses, and TFDs are sold separately.
 2. Dimensions are in in. [mm].



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