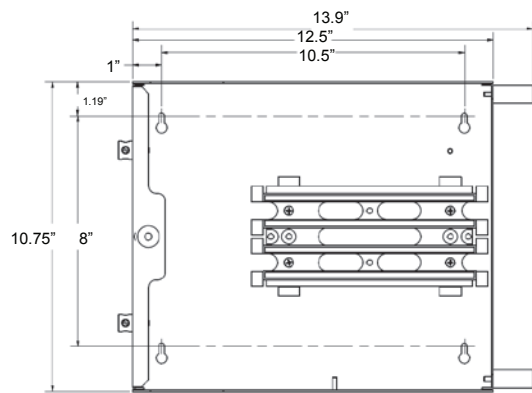
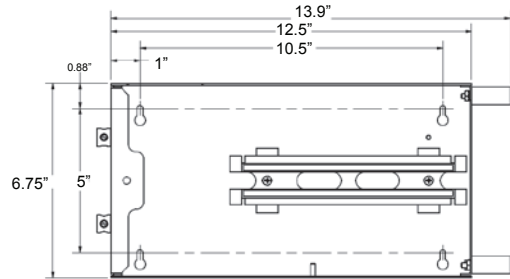
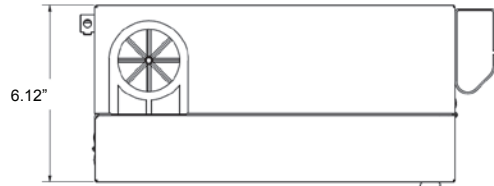




# Series 24 BET (110-Term)

## MECHANICAL SPECIFICATIONS FOR SERIES 24 BET



### Standard Warranty

Tii Technologies warrants Products to be in good working order under normal use and maintenance for one year. If any Product is not in good working order during the one year period of this Warranty, Tii Technologies at its election, shall repair, replace or refund the purchase price of the product. Any action with respect to this Warranty must be brought within one year from the date of receipt of the product by the end user.

This Warranty shall not apply to Products, which are subject to misuse, neglect, abnormal wear and tear, improper installation, maintenance, or application or service or repair not authorized by Tii Technologies and shall only apply to products originally manufactured by Tii Technologies. This Warranty shall not apply to any Tii Technologies Product which has been altered, modified or added to except with Tii Technologies specific written consent. THIS WARRANTY IS IN PLACE OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, AND ALL OTHER WARRANTIES, INCLUDING WARRANTIES AS TO MERCHANTABILITY OR FITNESS, ARE EXPRESSLY EXCLUDED.

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# Series 24 BET (110-Term)

Model #'s: 24025-110-M110C, 24050-110-M110C & 24100-110-M110C

## Installation Instructions

### Use and Location Selection

The Series 24 BET are intended for indoor use only and should be located:

1. Inside a building or other suitable shelter.
2. Mount on a suitable vertical surface that is firm and screw holding power is adequate.
3. Where easily accessible and where maintenance will not block a passageway.
4. Where there is no risk of severe moisture.
5. With adequate clearance from electric light fixtures, equipment, and power circuits and where there is no risk of damage by moving machinery, hoists, and doors etc.
6. With provisions for adequate space around the unit for cables and/or splices.
7. Near a suitable earth ground.

### Protector Modules

This Series 24 BET will accept male, also known as five-pin style protector modules. Protector modules must be listed for primary protection per UL497 in order to maintain the UL listing of the BET. The effectiveness of the protection depends heavily upon the performance specifications of module chosen. Tii Technologies carries a complete line of protector modules to suit a variety of applications. See the Tii Technologies web site (www.tiitech.com) or call our customer service department (888) 844-4720 for assistance in choosing the best Protector Module for your application.

### Note:

The BET and Protector Modules shall be installed and connected to earth ground in accordance with the instructions contained herein and the applicable requirements of the National Electric Code, ANSI/NFPA-70, Article 800, Section C and any applicable State Regional, and Local Codes.

### Caution:

**Risk of Electrical Shock** –The BET is not to be used without associated Protector Modules.

# Series 24 BET

## Installation-

1. Align unit in desired location on a vertical mounting surface. (Fig. 1)
2. Affix unit securely with four #10 x  $\frac{3}{4}$ " wood screws (supplied) or other hardware suitable for use on the mounting surface.
3. Connect a #6 AWG ground wire from the ground termination point on the BET to a suitable earth ground. (See recommended grounding section below). (Fig. 2)
4. If the unit is being installed in a cascade configuration with other BETs, connect a #6 AWG ground wire from the ground termination point on the unit to a ground point on an adjacent BET.
5. For optimum protector performance, all bends in the routing of the #6 ground wire should be of a minimum 8-inch bend radius.
6. Within the splice chamber of all Series 24 BETs is a ground wire connected internally to the ground termination point. When installing BETs on OSP cable runs between buildings, this ground wire should be attached to the shielding of ONE END of the outside plant cable using a (user supplied) "B-Bond" clamp. For proper installation of the B-Bond clamp, consult the instructions from the B-Bond clamp manufacturer.
7. To install the incoming OSP cable on a single stand-alone BET follow the instructions below.
  - a) Insert the cable through the cable boot or filler grommet by cutting the boot or grommet to fit snugly around the cable. Leave enough cable to make the punch-down terminations. Place a filler bushing in the other slot opening.
  - b) Strip the shielding from the cable, ground the shielding as needed, and punch down the cable pairs on the block.
  - c) Note: all connections made to the BET 110-termination blocks must be of #22 AWG or #24 AWG. Series 24 BET are equipped with #26 AWG fuse wires on the unprotected (OSP) side of the BET. These #26 fuse wires are known as the "fusible link," and will protect the equipment user by fusing open in the event of a sustained over-current condition.
  - d) Seal the splice chamber by closing the front panel and fasten to the base by tightening the securing bolt.
8. Vertically Stacking the Series 24 BET: (Fig. 3)
  - a) The procedure for vertically stacking is generally limited to 100-pair BET.
  - b) Secure the first BET to the wall and using the double slotted portion of the boot to set the vertical spacing to the next unit. The "funnel" portion of the boot should be removed by using a utility knife/saw. (Fig. 5)
  - c) After all BETs have been secured to the wall, pass the cables into and through the BETs. Maximum of 5 100-pair cables can be passed through the BET. (Fig. 5)
  - d) Remember to ground ONE SIDE of each OSP cable you are running to the BETs using the ground wire in the splice chamber and a b-bond clamp, as described in Step 6.
  - e) Seal the splice chamber by closing the front panel and fasten to the base by tightening the securing bolt.
9. Series 24 BET can also be arranged in a Matrix configuration on a wall with each BET fed by a 100-pair cable and all of the 100 pair cables run the around the outside of the BETs. Leave 6" minimum between units. Follow instructions for individual BET installation, Steps 1 thru 7. (Fig. 4)
10. One cable bushing and two filler grommets are supplied with each unit.

### Recommended Grounding

Utilize the best grounding available. Connecting to a poor ground will reduce the effectiveness of the protection device. Never use excess wire that will result in looping, gathering, or winding of the ground wire. Use the shortest ground wire that is practical. If you are uncertain of proper grounding for BET consult a licensed electrician.

*\*Stack-ability is limited to the gauge and quantity of cable(s) that can pass through the rubber boot (Approximately a 2 inch diameter).*



Figure 1.

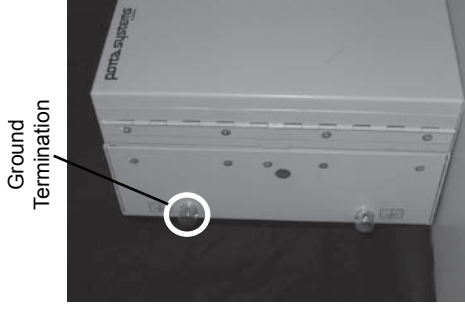


Figure 2.



Figure 3.

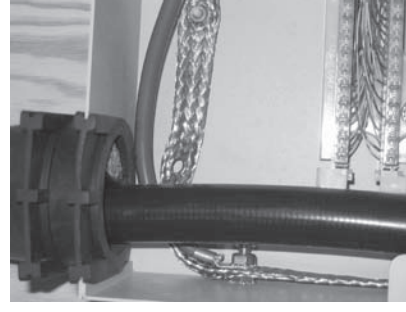


Figure 4.

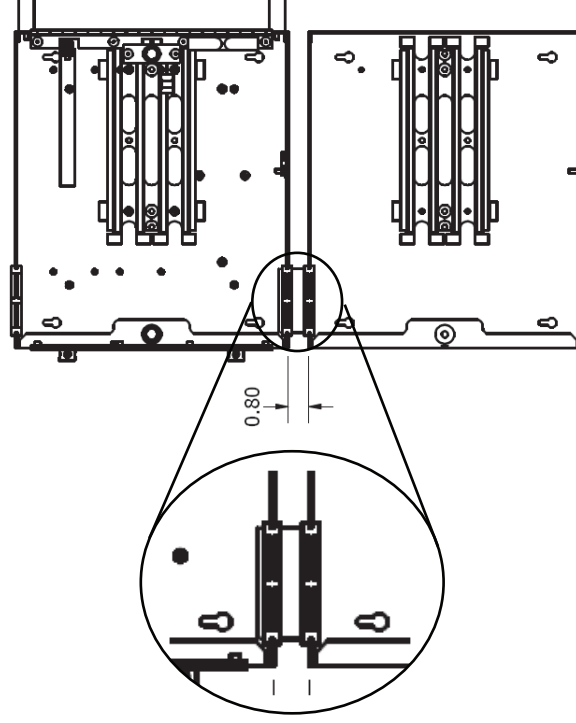


Figure 5.



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