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REVISIONS

LTR	DESCRIPTION	ECO NUM.	DATE	APPROVED
A	PRELIMINARY RELEASE FOR CUSTOMER REVIEW	DD063-1	7/2/07	MLH
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DRAWN: MLH	DATE 6/27/07	
CHECKED: BP	7/3/07	
ENGR. APPD: JDW	7/3/07	
PROJ. APPD: DAN	7/3/07	
APPROVED:		

MATERIAL:

Transtector Systems, Inc.
10701 Airport Road, Hayden, ID 83835
800.882.9110 208.772.8515 www.transtector.com

TITLE:
Product Specification ALPU SSM Series Broadband Communications Protector

SIZE	CAGE	DRAWING NUMBER	REV
A	30992	1400-616	A

SCALE = N/A

SURGE SUPPRESSOR MODELS: ALPU-SSM Series Broadband Communications Protector
Model ALPU-POE-48 Power Over Ethernet Protector PN 1101-873

1. **GENERAL DESCRIPTION:** The Transtector ALPU-SSM Series Broadband Communications Protectors are ideal for protecting data circuits with combinations of high speed data connections. The protection circuits utilize silicon avalanche diode technology. The unit consists of an outdoor rated NEMA 3R type enclosure with easy mounting flanges, ground stud attachment and wiring features. The ALPU-POE-48 model features RJ45 protection circuits for the Ethernet data pairs (pins 1,2 & 3,6) and DC un-polarized power (pins 4,5 & 6,7 with the pairs bonded) for any combination of circuits up to 60VDC MCOV. The unit is intended to be wall mounted and an optional bracket is available to allow a wide range of pole mount applications. A dedicated ground stud is provided inside the unit that must be bonded to the nearest grounding system (or Master Ground bar) for proper surge protection functionality. The system wiring is installed with RJ-45 type connectors that can feed directly into the chassis without having to cut or splice or route through awkward strain relief holes. The plastic enclosure features a built in cable retention feature that grips the cable as the lid is attached. In the unlikely event of surge protection self sacrifice, the individual protection cards will fail short to disrupt communication. The protection cards can be replaced for ease of service. The protection cards are designed to meet UL 497A requirements.

2. **ELECTRICAL:**
   - **2.1 ALPU-POE-48 Power Over Ethernet Protector**
     - **2.1.1 Connector Style**.....RJ45 Cat5 unshielded 100ohm, 50ohm single ended
     - **2.1.2 Ethernet Protected Pins** ..... (1,2) and (3,6) pass through
       - **2.1.2.1 Data Rate** 100Mb/s
       - **2.1.2.2 Nominal Operating Voltage** 5Vpeak
       - **2.1.2.3 Maximum Continuous Operating Voltage**.....6Vpeak
       - **2.1.2.4 Impedance**..... 85 to 115ohms
       - **2.1.2.5 Frame Transmission** .....100% Transmission @ 100Mb/s
       - **2.1.2.6 Attenuation**..... < -1dB @ 16MHz
       - **2.1.2.7 Isolation/Crosstalk** ..... < -60dB @ 32MHz
       - **2.1.2.8 Surge Suppression** (per GR-1089) .....<25Vpeak @ 100A 10/1000us
     - **2.1.3 DC Power Protected Pins** ..... (4,5) and (7,8) pass through
       - **2.1.3.1 Nominal Operating Voltage** 48Vpeak
       - **2.1.3.2 Maximum Continuous Operating Voltage**.....60Vpeak
       - **2.1.3.3 Surge Suppression** (per GR-1089) .....<75Vpeak @ 100A 10/1000us

3. **ENVIRONMENTAL:**
   - **3.1. Operating/Storage Temperature:** .....-40°C to +75°C
   - **3.2. Relative Humidity:** .....99% (non-condensing)

4. **MECHANICAL:**
   - **4.1. Weight**..... .5lbs (.2kg)
   - **4.2. Product Dimensions (see figure 1)** .....Plastic, UL94V0 Rated

5. **INSTALLATION**: The ALPU-SSM Series Protectors are intended to be installed indoors or outdoors, on wall or pole mount applications. The unit mounts on four inch hole centers. Refer to figure 1 for mechanical requirements and connector locations. A dedicated ground stud is provided inside the unit that must be bonded to the nearest grounding system. Use minimum 10awg wire for ground reference attachment. Communications cables with the RJ45 connectors already installed can feed directly into the chassis. The plastic enclosure features a built in cable retention feature that grips the cables as the lid is attached.

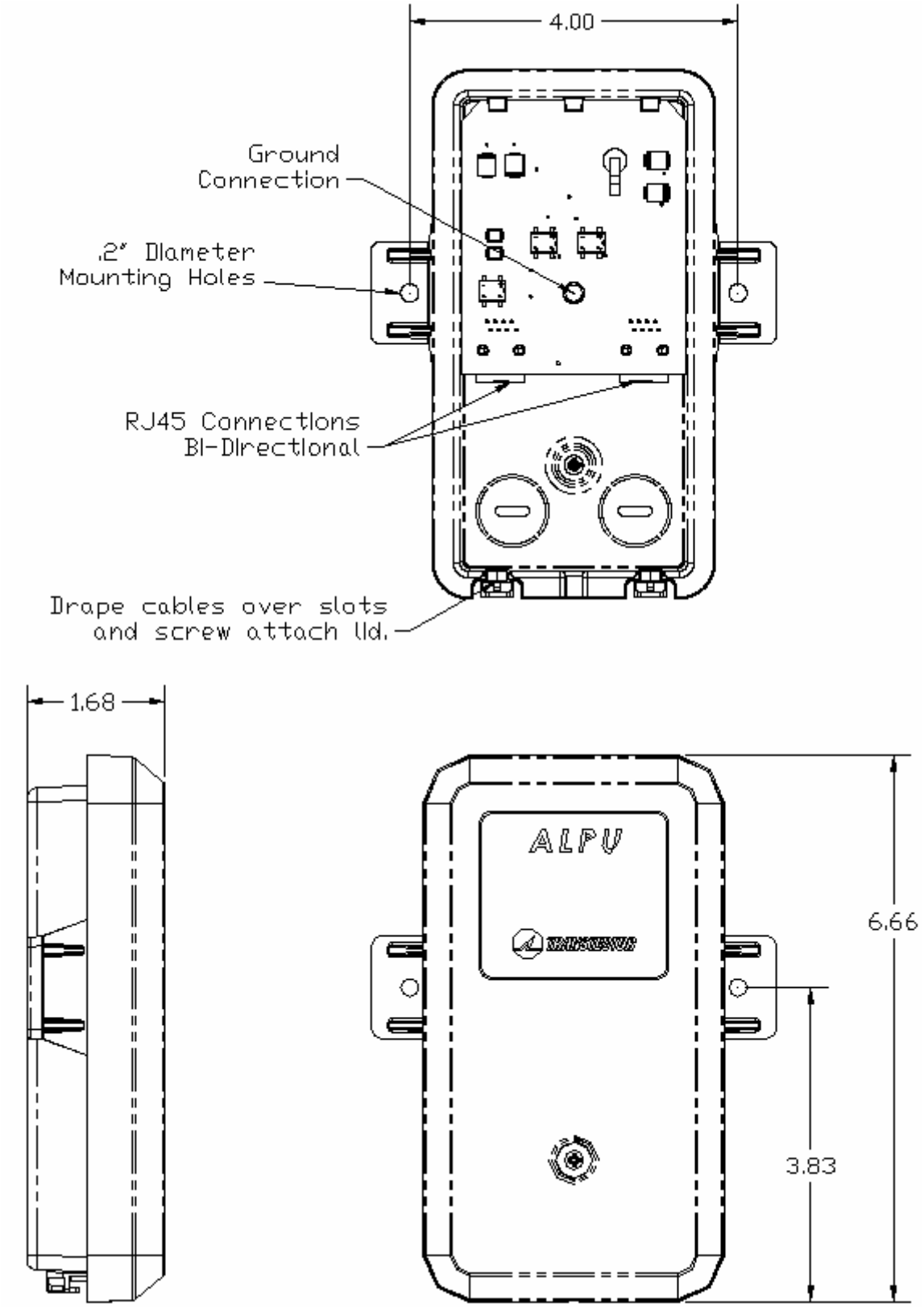

Figure 1. Mechanical outline drawing (inches)

SIZE	CAGE		
A	30992	1400-616	A
SCALE = N/A			Page 3 of 3