

## REVISED

LTR	DESCRIPTION	ECN	DATE	APPROVED
A	PRODUCT RELEASE		11/15/07	CBY



DRAWN CBY	DATE 10/29/07	 <b>Transtector Systems, Inc.</b> 10701 Airport Road, Hayden, ID 83835 800.882.9110 208.772.8515 www.transtector.com		
CHECKED CKW	11/15/07 11/15/07			
ENGRG APPD DMR	11/15/07	TITLE	<b>PRODUCT SPECIFICATION</b> <b>ALPU-EXLT</b>	
PROJ APPD DLR	11/15/07			
APPROVED CBY	11/15/07			
<b>NOTICE:</b> THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF TRANSTECTOR SYSTEMS. ALL RIGHTS RESERVED.		DOCUMENT NUMBER	1400-634	REV A
		CAGE	30992	PAGE 1 of 3

## **1.0 GENERAL MODEL DESCRIPTION**

### **ALPU-EXLT, 1101-887**

The ALPU-EXLT surge suppressor is a high-speed, high-current solid state device that is designed to protect (2) 55VDC Ethernet CAT-5 communication pairs, (1) 55VDC pair, (1) 55VDC Reset Wire and (1) 55VDC LED Signal wire. The ALPU-EXLT utilizes an effective two-port network with sneak current and PTC fusing with silicon avalanche suppressor diodes (SASD) to meet the requirements of UL497B. It connects to the service in a dedicated “clean” and “dirty” pass-through configuration. All input and output connections terminate at 110-style IDC connectors. Both the input and output cable harnesses pass into the suppressor housing via waterproof strain reliefs. The suppressor is housed in a molded plastic enclosure that is designed to meet NEMA 3R.

## **2.0 ELECTRICAL SERVICE:**

2.1. Nominal Operating Voltage: .....	55VDC (All Pins)
2.2. Maximum Continuous Operating Voltage (MCOV):.....	90VDC (All Pins)
2.3. Maximum Continuous Current:.....	1A
2.4. Ethernet/Signal Lines: .....	Cat-5
2.5. Input/Output Connection:.....	IDC
2.6. Wire Configuration	
2.6.1. Ethernet: .....	2 pair
2.6.2. DC:.....	up to 4 wire
2.6.3. Reset Wire: .....	1 wire
2.6.4. LED Signal Wire: .....	1 wire

## **3.0 ELECTRICAL PERFORMANCE:**

3.1. Protection Modes:.....	Line to Line, Line to Ground (All Pins)
3.2. Tested to IEEE/ANSI C62.41 10/1000µs Long Wave	
3.2.1. Peak Current.....	150Apk
3.2.2. Voltage Protection Level (Vpl) .....	130Vpk @ 150A 10/1000µs
3.3. Tested to IEEE/ANSI C62.41 8/20µs Combination Wave	
3.3.1. Peak Current.....	1500Apk
3.3.2. Voltage Protection Level (Vpl) .....	152Vpk @ 1500A 8/20µs
3.4. Peak Power Dissipation.....	20,000 Watts
3.5. Response Time (Max.) .....	5 nanoseconds

## **4.0 ENVIRONMENTAL SPECIFICATIONS:**

4.1. Operating/Storage Temperature.....	-40°C to +85°C
---	----------------

- 4.2. Enclosure Rating ..... Designed to meet NEMA 3R  
 4.3. Flame Rating ..... UL 94-V5

## 5.0 MECHANICAL/INSTALLATION:

- 5.1. Transtector Installation Document ..... 1200-333  
 5.2. Enclosure Dimensions: ..... 6.16" LG X 4.5" WD X 2.5" DP  
 5.3. Wiring ..... (2) Multi-conductor cables up to 0.375" diameter  
 5.4. Mounting ..... Mounts w/ #6 hardware (see below)

