

REVISIONS				
LTR	DESCRIPTION	ECN	DATE	APPROVED
A	PRODUCT RELEASE	DD084	2/15/07	DWR



DRAWN	CKW	DATE	01/23/07	 Transtector Systems, Inc. 10701 Airport Road, Hayden, ID 83835 800.882.9110 208.772.8515 www.transtector.com
CHECKED	SL	2/26/07		
ENGRG APPD	DWR	2/26/07		
PROJ APPD	BP	2/26/07		
APPROVED				
NOTICE: THE INFORMATION AND DESIGN IN THIS DOCUMENT IS THE PROPERTY OF TRANSTECTOR SYSTEMS. ALL RIGHTS RESERVED.				TITLE PRODUCT SPECIFICATION ALPU-90V
		DOCUMENT NUMBER	1400-610	REV A
		CAGE	30992	PAGE 1 of 3

1.0 GENERAL MODEL DESCRIPTION

ALPU-90V, 1101-859

The ALPU-90V 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-90V 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. Transfer Rate	
2.4.1. Ethernet/Signal Lines:	Cat-5
2.4.2. DC:	DC
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 10/1000 μ s Long Wave	
3.2.1. Peak Current:	150Apk
3.2.2. Voltage Protection Level (Vpl)	130Vpk @ 150A 10/1000 μ s
3.3. Tested to IEEE/ANSI C62.41 8/20 μ s Combination Wave	
3.3.1. Peak Current:	1500Apk
3.3.2. Voltage Protection Level (Vpl)	152Vpk @ 1500A 8/20 μ s
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..... 1200-148
- 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)

