

# GIGABIT PoE DATALINE SURGE PROTECTOR

## BTU-POE-PLUS SERIES



The BTU-POE-PLUS SERIES is a UL497B SPD designed to protect sensitive data-processing equipment connected to a Gigabit PoE PLUS network from transient over voltages.

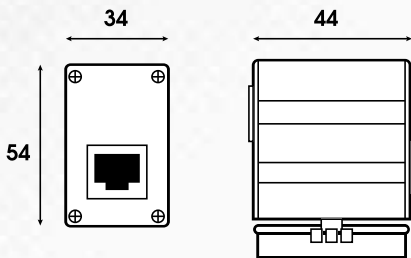
The BTU-POE-PLUS surge protector is deployed in signal network applications with data transmission speeds up to 1000 Mbps. The surge protector is housed in a shielded enclosure with high quality RJ45 shielded jacks.

The transient protection circuit is based on high energy gas discharge tubes (GDT) and a network of fast response TVS silicon avalanche diodes (TVS) to achieve sharp clamping of very large surge events.

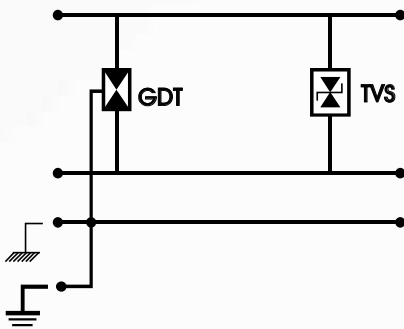
- Gigabit PoE PLUS Surge Protector
- 100 Base T/1000 Base T compatible
- Shielded enclosure and connectors
- 2 kA/pin discharge capability
- Max DC Current: 1.2A Total



### DIMENSIONS (IN MM)



### DIAGRAM FOR ONE PAIR



**GDT:** 3-electrode gas tube  
**TVS:** Low-capacitance TVS diode

### CHARACTERISTICS

	BTU-POE-PLUS
Application	Gigabit PoE PLUS Networks
Max. data rate	1000 Mbps
Standard Compliance	IEEE 802-3at/at/bt (transmission) UL497B RoHS Compliant
Connections:	
-input	RJ45 shielded
-output	RJ45 shielded
Pinout	8 wires + shielding
Max. DC Power Supply	60 Vdc, (L - G)
Nominal discharge current	
-Line-Ground/Pin	2000A @ 8/20 $\mu$ s
-Line-Ground/Total	16000A @ 8/20 $\mu$ s
Enclosure	Metal
Connection to bonding network	Din Rail or Ground Lug (included)

**FDOT APL# 620 004 007**