

**TP-ESP-GPOE-OD**

DATA SHEET

Outdoor Ethernet Surge Protector

Features

- 10/100/1000Mb Data Rate
- CAT5e/6/6a Compatible. All 8 pins protected.
- Shielded RJ45 jacks and split gasket cable glands
- Complies with IEC 61643-21 Standard
- IP66 Waterproof and UV protected for Outdoor Applications

Applications

- Wireless Access Points and Client Devices
- IP Phone and Security Camera Systems
- Industrial Control Systems

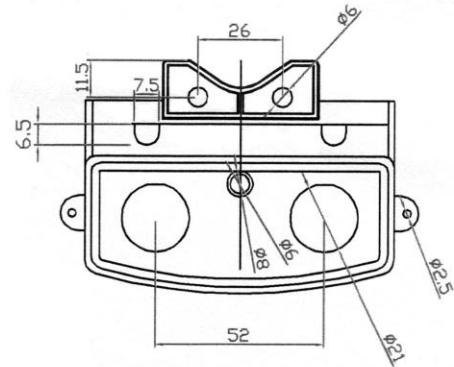
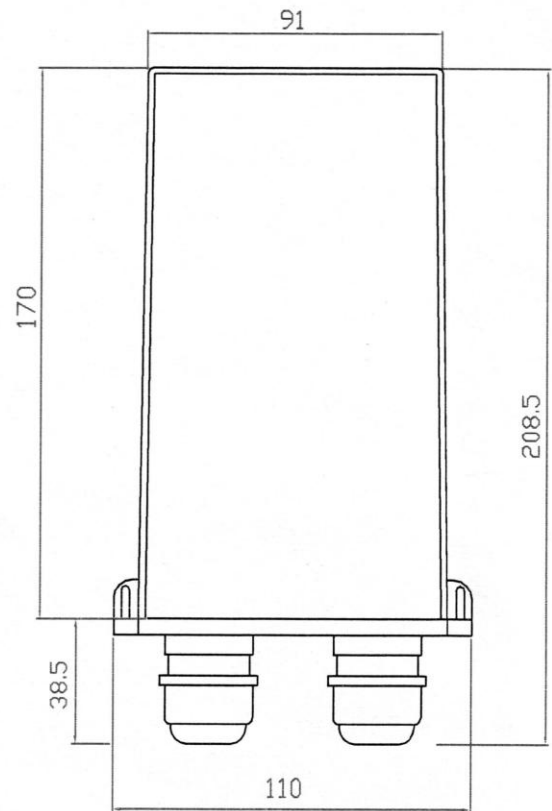
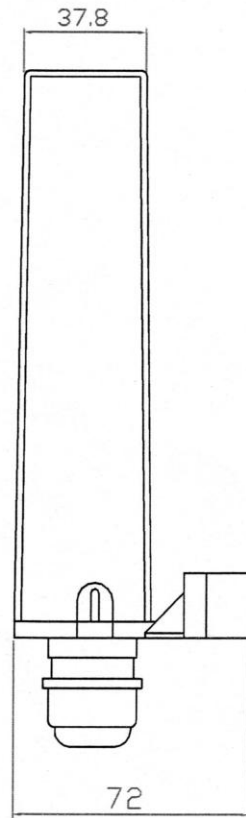


Description

The TP-ESP-GPOE-OD are a low cost Outdoor Ethernet Surge Protector to help protect sensitive equipment from surges caused by lightning and grid power fluctuations. The surge protector is compatible with 10/100/1000M PoE systems up to 56V. Protection is provided on all 8 CAT5e/6/6a wires. There is a ground wire connection on the bottom of the housing which can be connected to the metal pole or to a separate ground wire, connected to earth ground. It protects equipment by clamping excess voltage and diverting surge currents, ensuring reliable operation in 56V DC environments. Note: For best results, mount the surge protector as close as possible to equipment that needs protection. There is no polarity so connections can be made to either port.

Specifications

	TP-ESP-GPOE-OD
Operating Voltage	56VDC Max Continuous
Current Capacity	1.25A per cable pair
Protection Mode	Differential & Common Mode
Surge Protection	125A (line-to-line) and 100A (line-to-ground) (8/20us) 5KA (line-to-ground) (8/20us)
Durability	300x 100A Surge, 10x 5KA Surge (3 min intervals)
Capacitance	<5pF
Clamping Voltage	77V (All 8 Wires) (line-to-line) 98V (All 8 Wires) (line-to-ground)
Data Rate	10/100/1000 Mbps
Response Time	<5.0 ns
Operating Temperature	-40 to +185°F (-40 to +85°C)
Storage Temperature	-40 to +185°F (-40 to +85°C)
Operating Humidity	0% to 100%, IP66 Weatherproof
Size (L x W x H)	8.2 x 4.4 x 2.8" (209 x 111 x 72mm)
Weight	0.95lb (426g)
Earth Ground Wire	14 AWG (internal) , Stainless Steel Stud (external)
Ethernet Connectors	RJ45 Shielded Jacks (internal), Cable Glands (external)
IEC Standard	61000-4-5, 61643-21
IEEE/ ANSI Standard	C62.45
MTBF (Mean Time Between Failure)	819,049 Hours
Warranty	3 Years

**System Ordering:****TP-ESP-GPOE-OD**

Outdoor Gigabit Network Lightning/ Surge Suppressor, 77V Clamping for 40-57V PoE

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