



**Model SP-005POEWM1**

**Waterproof Gigabit PoE Surge Protector**

**Product Datasheet**



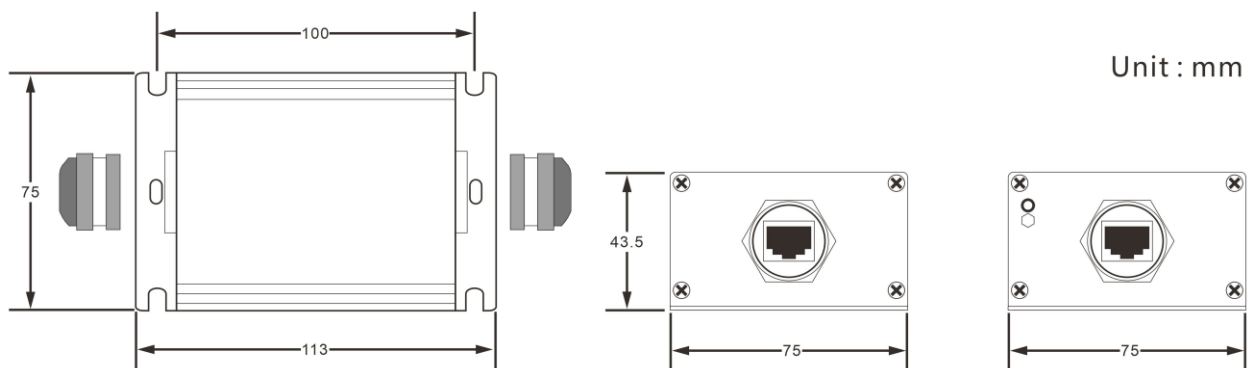
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**SP-005POEWM1** is a Waterproof Gigabit PoE Surge Protector. It protects PoE cameras, PoE switches, servers, modem, network terminals and other network communication equipment in surveillance systems.

## Features

- ◆ Compatible for 10/100/1000Mbps network and power
- ◆ Support 1, 2, 3, 6 or 4, 5, 7, 8 power line protection at the same time
- ◆ Reasonable circuit design, very low insertion loss
- ◆ Special signal isolation technology, reduce surge strike for network devices

## Dimension



**Note: Dimension error value  $\pm 1$  mm**

## Housing Parameter

| Category               | Description    |
|------------------------|----------------|
| Protection Class       | IP67           |
| Housing Material       | Aluminum Alloy |
| Flame Retardant Class  | V-1            |
| Interface Material     | PC             |
| Dimensions (L × W × H) | 113×75×43.5mm  |
| Sealing Element        | Silicone Ring  |

## Technical Parameter

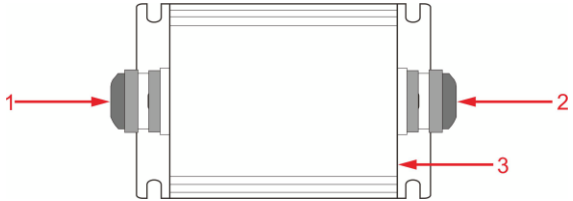
| Category                                   | Description                |                    |
|--------------------------------------------|----------------------------|--------------------|
| Signal Type                                | Network                    | Power              |
| Interface Type                             | RJ45                       |                    |
| Working Voltage (Un)                       | 6/12V                      | 48V                |
| Max. Continuous Operating Voltage (Uc)     | ≤20V                       | ≤60V               |
| Voltage protection level (Up @line-line)   | 20V@ 3kV (1.2/50)          | 60V@ 3kV (1.2/50)  |
| Voltage protection level (Up @line-GND/PE) | 60V@ 3kV (1.2/50)          | 400V@ 3kV (1.2/50) |
| Nominal Discharge Current (In @8/20μs)     | 5kA                        |                    |
| Max. Discharge Current (Imax @8/20μs)      | 10kA                       |                    |
| Surge Life at 0.5kA (8/20μs)               | >2000 events               |                    |
| Bandwidth (3dB) per pair                   | 250MHz                     |                    |
| Return Loss (100 Ω)                        | -16dB                      |                    |
| Lightning protection                       | 10kV@8/20μs, 10kV@10/700μs |                    |
| Transmission Rate (Mbps)                   | 1000                       |                    |
| Response Time (ns)                         | ≤1                         | ≤25                |
| Insert Loss (dB)                           | ≤0.2                       |                    |
| Working Temperature                        | -40℃~+80℃                  |                    |
| Working Humidity                           | <95% Non-condensation      |                    |
| Net Weight (g)                             | 287                        |                    |

## Installation Diagram



## Installation Instructions

Please first loosen the waterproof connector, then insert the Ethernet cable through the waterproof connector and attach the RJ45 connector to the corresponding port on the product. Ensure the water blocking plug is properly installed and securely tightened!

|  | NO | Step                                                                     |
|------------------------------------------------------------------------------------|----|--------------------------------------------------------------------------|
|                                                                                    | 1  | Connect the protected device of computer and network switches to OUT (1) |
|                                                                                    | 2  | Connect Cat5/6 cable to IN (2)                                           |
|                                                                                    | 3  | Connect ground lead (3) to the grounding device                          |



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