

# SG-RJ45-PoE (P model)

## Plastic RJ-45 Data Protection Module



- High Surge Current Rating
- IEEE 802.3, IEEE 802.3u, IEEE 802.3ab standard
- IEEE802.3af,802.3at,802.3bt type 3&4 PoE compatible
- 10/100/1000 Base-T CAT5/5E/6 protection
- Maximum discharge voltage (Vmax) : 6KV
- Fast Response
- Low residual voltage
- FCC, CE and RoHS Compliant
- Easy to Installation

### Overview

Shogun's surge protection device for digital data line, SG-RJ45-PoE (P model) is designed to protect networking systems and digital communication systems using switches, routers, modems etc. The design is based on the principle of current limiting as well as voltage clamping and stabilizing. This product is fully compatible with standard IEEE 802.3af/at/bt PoE devices and 10/100/1000 Base-T Ethernet networks. It provides Line-Line & Line-Ground protection and also both the Ethernet data pairs as well as the PoE DC power feed.

### Specifications

#### Design & Structural :

- Plastic Housing
- Light Weight & Mounting screws

#### Interface Characteristic :

- Interface port type : 10/100/1000 Mbps RJ45 female (input) / female (output)
- Standard reference : EMC (FCC & CE Approved), Surge (Surge Class II IEC-61000-4-5 IEC61643-21)  
Flammability of plastics (IEC 60695-11-10, IEC 60695-11-20), Environment (RoHS)

#### Technical data :

- Operating voltage (1,2, 3,6): 12Vdc
- Operating voltage (4,5 7,8) : 48Vdc
- Nominal Voltage : 48Vdc
- Max. Operation Voltage : 57 Vdc
- Nominal current : 0.8 A
- Nominal discharge voltage : 2KV(L-L), 6KV(L-PG) @ 10/700μs, 40Ω
- Total Nominal discharge : 6kV / 150A @ 10/700μs, 40Ω
- Voltage protection level (In) : ≤ 70V (L-L), ≤ 70V (L-PG)
- PoE Voltage protection level (In) : ≤ 70V (L-L)
- Transmission frequency : 250 MHz
- Insertion loss : ≤ 2 dB (at 250 MHz)
- Response time : ≤ 1 ns
- Protected mode (line) : 1, 2, 3, 6
- Protected mode (PoE) : 4, 5, 7, 8

#### Physical :

- Dimension (mm) : 130 x 35 x 48 mm
- Temperature : -40 C to 80 C
- Weight : 78 g.