



## FL45-E100

### 100M Ethernet Signal Surge Protector

- Support 1 100M Ethernet signal input and output, and provide 3kA surge protection
- Adopt multilevel protective circuit with quick response and low residual voltage output
- Response time is less than 10ns
- Applicable rate 100Mbps
- Metal housing, great sealing, and resistant to dust and corrosion



## Introduction

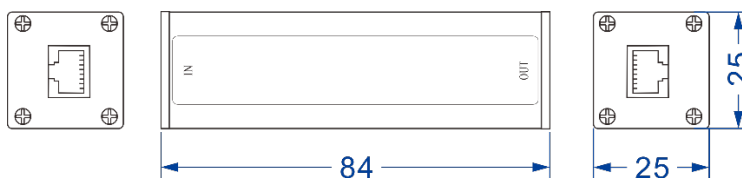
FL45-E100 100M Ethernet signal surge protector is designed by IEC61000-4-5 and ITU-TK20&K21 standard. It adopts multilevel protective circuit and the newest high-speed surge protection device which has quick response, low residual voltage output and excellent transmission performance. The interface is RJ45 which is easy to use and suit for 10/100M Ethernet device protection, such as lightning protection for web cams, HUB, switch, router.

FL45-E100 100M Ethernet signal lightning protector is designed and manufactured on the principle of discharge, limited current, clamping, stabilivolt. When signal wire gets an overvoltage and overcurrent shock, it will put lightning power or its jamming signal into the ground. Overvoltage restriction enables electrical equipment to operate safely within allowable range.

This product adopts metal housing and good sealing, which has anti-dust and anti-corrosion function. It adopts serials connection that can restrain high voltage pulse on the wire to prevent backend device from being damaged by lightning and industrial surge.

## Dimension

Unit:mm



## Specification

Interface	<p>Standard: 10/100Base-T(X), IEC 61000-4-5, ITU-TK20&amp;K21</p> <p>Interface quantity: 1 100M Ethernet input and output</p> <p>Guard line quantity: 1, 2, 3, 6</p> <p>Interface form: RJ45</p> <p>Nominal discharge current <math>I_n</math>: 3kA 8/20<math>\mu</math>s (simulated lightning waveform)</p> <p>Nominal operating voltage <math>U_n</math>: 5V (other special voltage is customizable)</p> <p>Limited voltage <math>U_p</math>: <math>\leq 30V</math></p> <p>Applicable rate <math>f_g(3dB)</math>: 100Mbps</p>
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	Insertion loss: $\leq 0.5\text{dB}$ Response time: $\leq 10\text{ns}$
Power Supply / Power Consumption	No
Environmental Limit	Operating temperature: $-20\sim 60^{\circ}\text{C}$ Storage temperature: $-25\sim 85^{\circ}\text{C}$ Relative humidity: 5% ~ 95% (no condensation)
Physical Characteristic	Housing: metal Dimension (W x H x D): 84mm×25mm×25mm Weight: 70g
Certification	CE, FCC, RoHS
Warranty	1 year



## Ordering Information

Available Models	100M Copper Port (Input)	100M Copper Port (Output)	Power Supply
FL45-E100	1	1	No



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