



PC-CCTV/240

Surge Protective Device



No matter how simple or sophisticated the CCTV systems are, they often fail on the expectation to perform round-the-clock, continuous surveillance monitoring. This is not because their qualities are questionable, but simply because they are not equipped with any Surge Protective Devices (SPDs) or using a wrong choice of SPD.

LPS™ PC-CCTV/240 is not an ordinary SPD for CCTV System. This enhanced Malaysian made product is a combination of the highly successful and proven **LPS™ AC-25/240 & LPS™ CP-CCTV**. The enhanced **LPS™ PC-CCTV/240** not only serves as a Power Protector as well as a Coaxial Protector but also offers great savings and convenience.

Like all **LPS™** products, **LPS™ PC-CCTV/240** is housed in a metal enclosure with built-in specially designed

Thermal Cut-Out fuse that prevents dangerous thermal run-away and fire hazards in AC power segment. The coaxial video signal protection provides 7 stage protection with 75 ohm impedance matching circuit to reduce the reflection due to impedance mismatching to achieve a clear image.

When surge occurs, this SPD will switch to a fully conductive stage and divert the excessive surge current away. Then it will reset automatically. Under huge surge conditions, the coaxial circuit will fail in short circuit mode to earth or to screen.

For more effective protection, this **LPS™ PC-CCTV/240** should be installed near the equipment, especially when the connecting equipment is located 30 meters away, in adjacent building or outdoors.

Standard Features

Power

- Low Let-through Voltage
- Fail-Safe Metal Enclosure with specially designed Thermal Cut-Out fuse
- LED Indicator for visual monitoring on protection status.
- Full Mode Protection for both common and differential modes (i.e L-G, L-N, N-G)

Video Signal

- Seven stage hybrid protector
- Matches the network characteristics impedance
- Full mode protection - centre to screen and screen to earth
 - Protects coaxial communication lines - video circuits with BNC (Female) connector



PC - CCTV/240

Product Specifications

AC Power		Video Signal	
Distribution system	1-phase (2Wires + G)	Signal type	1V P-P Std. Video Signal
Nominal line voltage U _o	240 VAC (L-N)	Nominal operating signal voltage	± 1V
Max. continuous operating voltage U _c	275 VAC (L-N)	Max. operating signal voltage	± 2V
Max. surge current per phase @ 8/20 μs	25kA	Max. surge current @8/20 μs	Centre Conductor-Ground 10kA, Screen-Ground 11kA
Response time	<5ns	Response time	<1ns
Protection modes	L-N, L-G and N-G	Protection modes	Common & Transverse modes
Max. loading current	Unlimited	Max. signal current (Centre Conductor-Screen)	350mA
2.5mm ² lead length	110mm	Connector Interface	BNC Female
Let-through voltage U _p 6kV 1.2 / 50 μs open circuit voltage 3kA 8 / 20 μs short circuit current IEC 61643 - 1 Class III T ₃ ANSI/IEEE C 62.41 - Cat. B3 and C1 BS6651:1999 - Cat. C low and B high UL 1449 SS CP 33 AS/NZS 1768	900V (L-N,L-G,N-G)	Let-through voltage @IEEE C 62.36 -1994 (CCITT) / ITU-K.20 Enhanced 6kV, 150A, 10/700 μs	3V (Centre Conductor-Screen) 30V (Screen-Ground)
		Standard Clamping voltage	± 2.3V (Centre Conductor-Screen)@3mA 22V (Screen-Ground)@1mA
		-3db Band Width @ 75 ohm circuit	From DC to 140MHz
		Insertion loss @ 75 ohm circuit	< 0.5 db
		Max. shunt capacitance	< 30 pF
I TOTAL	25kA	Loop resistance	4 ohm
Earth leakage current	<1mA	Impedance	75 ohm
Diagnostics	LED		
Connection type	Parallel		
Operation frequency	40 - 60 Hz		

Common Features

Storage temperature	-40° C to +70° C
Metal Housing Ratings	IP 20 & NEMA 1
Weight	300g
Warranty	5 years

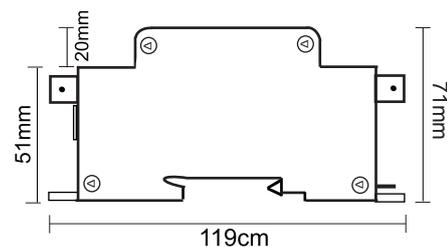
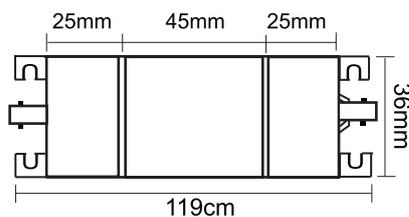
* All above specifications are subject to changes without prior notice. Customized products are also available upon request.

Top View

Dimensions

Side View

119mm x 36mm x 71mm



LIGHTNING PROTECTION SYSTEM SDN. BHD. (362924D)

No. 42-4, Jalan 11/116B, Kuchai Entrepreneurs' Park, 58200 Kuala Lumpur, Malaysia.

Tel: 603-7980 5911 Fax: 603-7980 4862 E-mail: info@lpsystem.com Web-site: www.lpsystem.com