

Integrated Surge Protector



Power+LAN Integrated surge protector for CCTV

[Power Line+LAN]



Integrated configuration of surge protection

Power line surge protection	Connectable to the terminal block
LAN surge protection	Connectable to the RJ45 Connector

Specification

Product Features

Voltage	Power Line : AC 220V / LAN : DC 48V	Power+LAN integrated product that can provide surge protection at low cost (low cost, High efficiency) Installation in small space (easy-to-install) Performance in compliance with KS C IEC standard - Power: When 20kV/10kA (Voltage 1.2/50 μs, Current 8/20 μs) is applied, within 2.5kV - LAN: When 10kV/5kA (Voltage 1.2/50 μs, Current 8/20 μs) is applied, within 150V Safety design [Thermal fuse] Lamp and buzzer for normal or abnormal state check Aluminum case for proven safety against surge protector failure
Type	Power(terminal block) + LAN(RJ45) type	
Capacity	Power Line : 40kA — mode LAN : 150kA — total, 25kA — mode	

Application

Power line for CCTV protection, LAN line integrated protection

Integrated Surge Protector



Power+LAN Integrated surge protector for CCTV



Model	KOSPD-S/C [Power Line+LAN]
Application	CCTV lightening, Switching surge
Application Field	CCTV power, Communication line lightening, Switching surge protection

Electrical property

		Power Line	Telecom (100Mbps)
Rated voltage	Un	220V AC	48V DC
Rated current		N/A	N/A
Power system configuration		Single-phase parallel	1-line serial
Max Continuous Operating Voltage (MCOV)	Uc	275V AC	68V DC
Rated frequency	f	50 / 60 Hz	N/A
Leakage current (@Uc)	IL	Less than 1 mA	Less than 0.5 mA
Insulation resistance (@500V DC)	RIN	Above 10 MΩ	Above 10 MΩ

Protection property

		20kV/10kA	10kV/5kA
Protection mode		L-N/N-G/L-G	(1,2,3,6)-G/(4+5)-G/(7+8)-G
Voltage protection level (@20kA/10kA Voltage 1.2/50μs, Current 8/20μs)	Up	≤ 2.5kV	≤ 150V
Maximum discharge Current (@Current 8/20μs)	I _{max}	40kA/mode	150kA/total
Response time (@10kV/μs)	t _a	Less than 5 ns	Less than 5 ns
Power noise filter (Frequency band and Damping rate)	Fc	N/A	N/A

Features

Operation status	Run = green lamp / Fault = red lamp
Safety	Safety design [thermal fuse]

Mechanical property

Protection rating level	IP20 (@IEC 60529), NEMA1
Operating temperature and humidity	-40~ 90℃, ≤ 95%
Terminal	Power Line : 25A [Awg 22~14] / Communication : RJ45
Size	(W)70 x (L)125 x (H)83 mm cf. p76
Installation	Bolt mounting
Weight	Less than 1.5kg

Test standard & Reference

IEC 61643-11 [2017] Performance and Test Criteria for Power Line Surge Protector
IEC 61643-12 [2017] Lightning Protection Zone 1,2,3
IEC 62305-1,2,3,4 [2017]
ANSI/IEEE Std C62.45 [2002] Guide to Surge Test for Low-pressure Device
ANSI/IEEE Std C62.41 [2002] Category A, B, C
IEEE Std C62.34 [2017] Power line surge protector performance standard
IEEE Std C62.62 [2018] Power line surge protector standard test specification
UL 497B
IEC 61643-21 [2015] Category A, B, C
ANSI/IEEE Std C62.64 [2009] Data/Telecom/Signal Line Surge Protector performance standard
IEEE Std c62.36 [2016] Data/Telecom/Signal Surge Line Surge Protector standard test specification

*DM(Differential Mode[Differential Mode])=NM(Normal Mode[Normal Mode])=Symmetrical Mode
 *CM(Common Mode[Common Mode])=LM(Longitudinal Mode[Longitudinal Mode])=Asymmetrical Mode
 *LPZ : Lightning Protection Zone(lightning protection area)

Power+LAN Integrated surge protector for CCTV



Model List

(W)70 x (L)127 x (H)83

- KOSPD-S/C

[Unit : mm]

