

TPS-series

Power Line and Signal Surge Protector



2 Channels-Signal TVSS



Make simple power strip become a TVSS

- Easy installation with simple power strip plug
- Parallel installation with AC power system
- Make simple power strip become a surge protector for preventing your electrical equipments against power line surge damage
- 2 channels of signal surge protection for protecting against surge entering the data lines and signal lines for IT and telecom equipments
- LED protected status and fault wiring indicator
- All TVSS protection mode ; L-N, L-E, N-E
- AC multi-surge TVSS in location category A or B
- Designed in accordance with ANSI/IEEE C62.41 and ANSI/IEEE C62.42
- ISO 9001, ISO 14001 and ISO 45001 certified factory



MODEL		TPS-111BH/LAN	TPS-111BH/ADSL
Electrical system		Single phase L-N-E	
Nominal input		200 - 250 Vac, 50 - 60 Hz	
Principle		Multi-surge TVSS	
TVSS protection mode		All mode; L-N, L-E, N-E	
Maximum Continuous Operating Voltage (MCOV)		280 Vac	
Surge capability (I _{max})		10 kA (20 kA is optional)	
Location category		ANSI/IEEE C62.41 CAT.A1, A2, A3, B1	
Indicator (LED)		TVSS Protected (green), Fault Wiring (red)	
Primary state		Gas arrester	
TVSS function		Long discharge transient	
Impulse spark over voltage		900 V at 1 kV/μs	
Secondary state		Star varistor	
TVSS function		Fast response transient	
Clamp voltage		710 / 775 V	
Transient current		10 - 20 kA (8/20 μs wave form)	
Total transient energy		3,800 Joules	
Transient response time		Less than 25 ns	
Number of signal protection channel		2	2
Signal applications		LAN 10 Base-T	ADSL
Connectors		Modular plug RJ45-8C	Modular plug RJ45-8C
Line protection		1 - 8	4 - 5
Breakdown voltage (V _{BR})		6.8	270
8/20 μs wave form (short impulse)		V _{CL} 13.4 A _{CL} 746	1,500 100
10/1000 μs wave form (long impulse)		V _{CL} 10.5 A _{CL} 143	1,000 50
Peak pulse power dissipation		1,500 W (10/1000 μs wave form)	
Fast response time		5 ns	
Low line capacitance		Less than 15 pF	
High speed buad rate		Less than 20 MHz	
DC isolated ground		V _{ISO} = 1,000/6,000 V	
Repititive peak plus current		I _{ISO} = 100 A (8/20 μs wave form)	
Environment		Temperature 0 - 40°C	
		Relative humidity 0 - 95% (non-condensing)	
Dimensions (W x H x D)		110 x 55 x 102 mm.	
Weight (approx. in kg)		0.6 kg	