

Series Surge Protection Device – SSPD

APTG-320CH-18

SSPD Model APTG-300CH-18 is designed according to new develop technology, - Energy Absorb & Transfer to Voltage (EAT2V), suitable for lightning & surges protection for AC power source of all electric & electronics products. SSPD can effectively suppresses high voltage interference sources such as Lightning Flash Surges, Power Switching Surges, Switching Inrush Current, Electric Magnetic Pulses etc., in regardless of how poor grounding environment or even no ground connection situation. APTG-300CH-18 actually is an effective lightning & surge protection device which is some of parallel type SPD in the market like placebo lightning surge protection products cannot compare ◦



Features:

- Outstanding lightning & surge protection functions in poor ground conditions.
- New develop & effective suppresses HV transient interference technology - EAT2V.
- Able to handle instant massive charges invasion shocks from conductor when lightning.
- To neutralize transient high potential interference invading from ground when lightning.
- Meet ANSI/IEEE C62.41 cat. C, high exposure, IEC 61643, IEC 61000-4-4, IEC 61000-4-5(X level), 1.2x50μs, 15KV.

Technical Specification

Model	APTG-320CH-18
Max. Load Current	18A
AC Voltage Range	AC Single phase, 3 wires (L, N + G), 100V~320V AC · 50/60Hz
Suppressing Surges	Lightning Flash Surge ; power switching surges ; Switching Inrush Current ; Electric Magnetic Pulse ; Series Spark
Method to Handle Surge Energy	Surge Energy Transfer to Voltage, then release to voltage waves
Protection mode	Line(L) –Neutral(N) ; Line(L) – Ground(G) ; Neutral(N) – Ground(G)
Max Impulse current@ 8x20μs wave	10KA per mode ; Total 30KA , 1 time
Input Impedance/ wave Form Affected	> 10 M Ohm (with no load) / ≤ 10 mS
Surge Immunity Test	1.2x50μs, 15kV; 8x20μs, 7.5kA (no ground condition), 2 time per 90sec interval
Surge Energy Absorbing Rate	98 % , (no ground condition) at 1.2x50μs, 10kV / 8x20μs, 5kA Combination surge wave
EMP/EFT Suppress capability	4.5kV@ 5x50ns EFT(Elec. Fast Transient / Burst) waveform
Ground Resistance Requirement	No requirement (Means, any resistance value is no influence to its surge protection functions)
Residue Voltage	<790V _{p-p} ±15% , (combination surge wave, 6KV/3KA)
Compliance standards	ANSI C62.41, cat. C, high exposure, IEC 61643-1, IEC 61000-4-4(X-level, 4.5KV), IEC 61000-4-5 (X-level, 15KV)
Operation temp. / Rel. Humidity	-20°C ~ 85°C / 35% ~ 95% RH (no condensation)
Size & Weight	*1 96 L x 45.5 W x 58 H, mm / 260 g *2 96 L x 49.6 W x 64 H, mm / 270 g
Enclosure material / Installation	Fire Proof Plastic, IP65 / Fixed by screws or DIN rail (optional)

*1 Dimension of body including flanges for screws fixing.

*2 Dimension of body for DIN Rail (Option)

V2305

ComMax International Company

12F-1, 118, Sec.3, Nan Jing E. Rd., Taipei, Taiwan
TEL.: +886 22 516 8789 FAX: +886 22 516 7779
Web site: www.commax.com.tw

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