

Series Surge Protection Device – SSPD

APWG-300CH-15

SSPD Model APWG-300CH-15 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. APWG-300CH-15 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 (Attestation by ETC)

Technical Specification

Model	APWG-300CH-15
Max. Load Current	15A
AC Voltage Range	AC Single phase, 3 wires (L, N & G), 100V~300V 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	30KA per total , 10KA per mode, 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 (Any resistance value is no influence to surge protection functions)
LED Display	Power ON/OFF & Failure Display
Residue Voltage	<750Vp ±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	-40°C ~ 85°C / 35% ~ 95% RH (no condensation)
Size & Weight	53 L x 34/45 W x 40 H , mm / 120 g
Enclosure material / Installation	Fire Proof Plastic , IP67 / Fixed by screws or DIN rail (optional)
Optional items	a.) Surge Counter (2 wire with no ground) ; b.) DIN rail plate

V2306