

# Series Surge Protection Device – SSPD

## APWG-320CH-10Sd

**SSPD** Model APWG-320CH-10Sd is designed according to new develop technology, - Energy Absorb & Transfer to Voltage (EAT2V), suitable for lightning & surges protection 20KV, 10KA 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-320CH-10Sd actually is an effective lightning & surges 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 no ground requirement.
- 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,20KV)



### Technical Specification

Model	APWG-320CH-10Sd
Max. Load Current	10 A
AC Voltage Range	AC Single phase, 3 wires (L, N + G), 90V~320V · 50/60Hz
Suppressing Surges	Lightning Flash Surge ; power switching surges ; Switching Inrush Current ; Electric Magnetic Pulse
Method to Handle Surge Energy	Surge Energy Transfer to Voltage, then release to later consecutive waves
Protection mode	Line(L) –Neutral(N) ; Line(L) – Ground(G) ; Neutral(N) – Ground(G)
Input Impedance without loads	> 10 M Ohm
AC wave Form Affected	≤ 10 mS
Max Surge Immunity Test	20KV @ 1.2x50μs , 2 times in 90 sec interval
Max Impulse current	10KA @ 8x20μs wave , one time in pos & neg. wave
Surge Energy Absorbing Rate	97 % , at 1.2x50μs,10kV / 8x20μs, 5kA Combination wave
EMP/EFTSuppressed capability	95%, at 4.5kV in 5x50ns EFT(Elec. Fast Transient/ Burst) waveform
Ground Resistance Requirement	No Requirement (Means, any resistance value is no influence to surge protection function)
Residue Voltage	850Vp ±20% (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,20KV)
Operation temp. / Rel. Humidity	-20°C ~ 85°C / 35% ~ 95% RH (no condensation)
Size & Weight	59 L x 29/41 W x 39 H , mm / 120 g
Enclosure & material / Installation	Industrial Fire Proof Plastic , IP68 / Fixed by screws

V2001

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