

# Series Surge Protection Device – SSPD

**APW-280CH-15Sb** (AC 2W, 100~280Vac, 15A)



**OK**

Outstanding Features  
With NO Ground

**SSPD** Model APW-280CH-15Sb 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. APW-280CH-15Sb 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 function with no ground requirement.
- New develop effective suppresses HV transient interference technology - EAT2V.
- Able to handle instant massive charges invasion shocks from conductor when lightning.
- Meet ANSI/IEEE C62.41 cat. C, high exposure; IEC 61643; IEC 61000-4-4 (X level, 4.5KV) IEC 61000-4-5 (X level, 15KV) (attestation by ETC).

## Technical Specification

Model	APW-280CH-15Sb
Max. Load Current	15A
AC Voltage Range	Single phase, 2 wires (L, N), 100V~280V AC · 50/60Hz
Suppressing Surges	Lightning Flash Surge ; Power Switching Surges ; Switching Inrush Current ; Electric Magnetic Pulse; Series Sparks
Method to Handle Surge Energy	Surge Energy Transfer to Voltage, then release to voltage waves
Protection mode	Line to Neutral (or, Line to Line)
Input Impedance/ Wave From Affected	> 10 M Ohm (no load) / ≤ 10 mS
Max. Impulse Current	10KA @ 8x20uS Wave
Max Surge Immunity Test	1.2x50μs, 15kV; 8x20μs, 7.5kA (no ground condition), 2 times 90 sec interval
Surge Energy Absorbing Rate	98 % , (no ground condition) at 1.2x50μs, 10kV / 8x20μs, 5kA Combination surge wave
EMP/EFT Immunity Test	4.5kV, 5x50ns EFT (Elec.Fast Transient/ burst) wave
Ground Resistance Requirement	No requirement
Residue Voltage	< 690Vp ±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 (level X, 15KV)
Operation temp. / Rel. Humidity	-40°C ~ 85°C / 35% ~ 95% RH (non condensation)
Size & Weight	45L x 24/34W x 35H , mm / 70 g
Enclosure & material / Installation	Fire Proof Plastic , IP67 / Fix by Screws & optional DIN rail

V2207

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