

ACT 421 DC Transient Surge Arrestor



ACT 421-XXX-040-101

▶ The ACT 421 is a transient surge arrester capable of protecting DC voltage between 12 - 350 Volts DC. It has been specifically designed to protect sensitive power supply lines from lightning and other surges induced on the input DC power lines. This Surge Protection Device (SPD) is designed with 2 Line low voltage surge suppressers that take advantage of the latest technology available.

As a quality SPD, the ACT 421 is designed and tested to meet UL 497 safety, but the protector is also designed and tested to meet the stringent ANSI/IEEE B3 Impulse performance standards (Over 900 times the UL497 requirement).

Unlike other low voltage line surge suppressers in both performance and surge withstands capability. These surge protectors were developed specifically to protect low voltage supply lines where + and - set of lines needs maximum surge protection.

The ACT 421-XXX-040-100 is designed for indoor or weather resistant protection. The ACT 421-XXX-040-200 is designed in a waterproof enclosure and can be safely buried.

▶ RECOMMENDED LOCATION

- Solar or Wind Generation Systems
- Telecom Battery Systems
- Any application using DC voltages outdoors

▶ FEATURES AND BENEFITS

- Robust Design – 40kA (8x20uSec)
- Extremely low let through voltages
- Fast Response Time < 10 nSec
- Green LED Indicator
- All Mode Protection (+ to Ground, - to Ground, + to -)
- Available in 12 to 350 VDC
- 1 Year Standard Warranty

▶ STANDARDS MET

- UL 497A — IEEE C62 3rd Party Tested

TECHNICAL INFORMATION

ACT 421-XXX-040-101 40 kA SINGLE Protector designed for indoor and weather resistant locations (+ or - protection to Ground)

ACT 421-XXX-040-102 40 kA DUAL Protector designed for indoor and weather resistant locations (+ AND - to ground)

ACT 421-XXX-040-201 40 kA SINGLE Protector designed for Outdoor / buried locations (+ or - protection to ground)

ACT 421-XXX-040-202 40 kA DUAL Protector designed for Outdoor / buried locations (+ AND - to ground)

▶ MECHANICAL SPECIFICATIONS

Dimensions: INDOOR 3"x 3"x2" (75 mm x 75mm x 50 mm)
OUTDOOR 4"x4"x2"(100 mm x 100mm x 50 mm)

Weight: 18 oz (510 g) and 32 oz (1.2 kg)

▶ ELECTRICAL SPECIFICATIONS

DC Voltage Levels: (XXX) 015, 030, 060, 150, 300

Max Current: (8x20us) 40kA

Technology: MOV / Gas Tube

