

The STV 100K Series - Surge Protective Devices

SolaHD's STV 100K series is a hardwired surge protective devices are designed for installation at the service entrance, branch panel or a dedicated sensitive electronic load. These units feature all mode protection, LED and audible alarm status indication, sinewave tracking and form "C" dry contacts. The STV 100K series also contains the highest levels of safety built into the product including thermal fusing and a fault current fusing level of 65 kAIC.

Features

- 100,000 amp peak current rating provides all mode protection against severe transients
- Low clamping levels for more effective protection
- 65 kAIC fault current fusing level provides safety and NEC conformance
- LED status and audible alarms
- Listed to UL 1449, 3rd Edition
- Compact, rugged metal NEMA 12 enclosure

Applications

- Distribution Panels (<1200 A)
- Branch, Lighting and Control Panels
- Factory Automation Installations
- Dedicated Industrial Equipment

Related Products

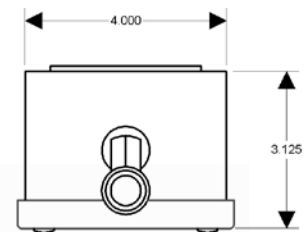
- Power Conditioners
- UPS
- Drive Isolation and K-Factor Transformers

Selection Table

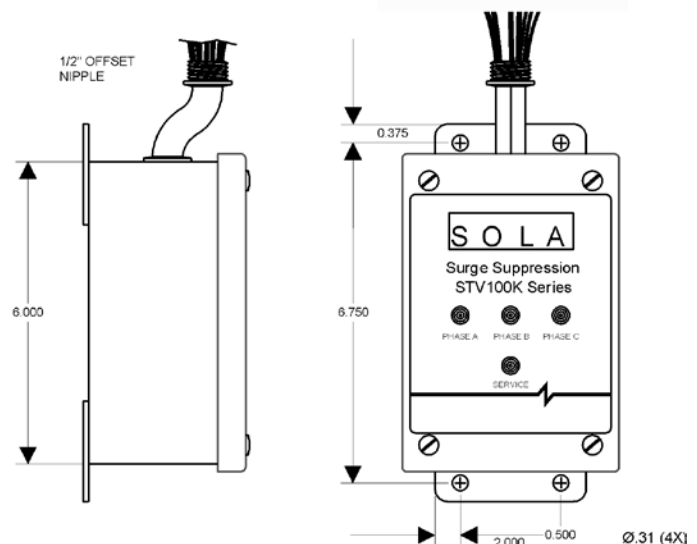
| Catalog Number | Input Voltage | |
|----------------|---------------|---------------------------------|
| STV 100K-10S | 120/240 V | Single Phase 3 wire + Ground |
| STV 100K-10Y | 208Y/120 V | Three Phase Wye 4 wire + Ground |
| STV 100K-10N | 120 V | Single Phase 2 wire + Ground |
| STV 100K-24L | 240 V | Single Phase 2 wire + Ground |
| STV 100K-23Y | 380Y/220 V | Three Phase Wye 4 wire + Ground |
| STV 100K-27Y | 480Y/277 V | Three Phase Wye 4 wire + Ground |
| STV 100K-24D | 240 V | Three Phase Δ 3 wire + Ground |
| STV 100K-48D | 480 V | Three Phase Δ 3 wire + Ground |
| STV 100K-10D4 | 240/120 CT | Three Phase Δ 4 wire + Ground |
| STV 100K-24D4 | 480/240 CT | Three Phase Δ 4 wire + Ground |



Dimensions



UNIT SHOWN IS A 3 PHASE WYE.



Contact **Technical Services** at (800) 377-4384 with any questions.
Visit our website at www.solahd.com.

STV 100K Specifications

| Description | Catalog Number | | | | | | | | | |
|---|--|---------------------------------|--------------|------------------------------------|--------------|--------------|----------------------------------|--------------|----------------------------------|---------------|
| | STV 100K-10S | STV 100K-10N | STV 100K-24L | STV 100K-10Y | STV 100K-23Y | STV 100K-27Y | STV 100K-24D | STV 100K-48D | STV 100K-10D4 | STV 100K-24D4 |
| Input Vac | 120/240 V | 120 V | 240 V | 208Y/120 V | 380Y/220 V | 480Y/277 V | 240 V | 480 V | 120/240 CT | 240/480 CT |
| | Single Phase 3 wire + Ground | Single Phase 2 wire + Ground | | Three Phase Wye 4 wire + Ground | | | Three Phase Δ 3 wire + Ground | | Three Phase Δ 4 wire + Ground | |
| Maximum Continuous Operating Voltage (MCOV) | 125% of the nominal level for 120 V; 115% for all other input voltages | | | | | | | | | |
| Line Frequency | 47-63 Hz | | | | | | | | | |
| Connection/ Mounting Type | Parallel/Flange | | | | | | | | | |
| Enclosure | Metal, NEMA 12 Enclosure | | | | | | | | | |
| Dimensions – in (mm) (H x W x D) | 4 x 6 x 4 (101.6 x 152.4 x 101.6) | | | | | | | | | |
| Weight (lbs/kg) | 8 lb/3.63 kg max. | | | | | | | | | |
| Modes of Protection | All Mode: L - N, L - L, L - G, N - G | | | | | | | | | |
| Safety Agency Approvals | UL 1449 3rd Edition, cUL | | | | | | | | | |
| UL 1449 (2nd Edition) Suppressor Classification | | | | | | | | | | |
| L – N | 400 V | 400 V | N/A | 400 V | 800 V | 800 V | N/A | N/A | 400 V | 800 V |
| L – L | 800 V | N/A | 800 V | 800 V | 1500 V | 1500 V | 1500 V | 1500 V | 800 V | 1500 V |
| L – G | 400 V | 400 V | 800 V | 400 V | 800 V | 800 V | 1500 V | 1500 V | 400 V | 800 V |
| N – G | 400 V | 400 V | N/A | 400 V | 800 V | 800 V | N/A | N/A | 400 V | 800 V |
| A/C Rating | 65 kAIC | | | | | | | | | |
| Status Indication | 3-Green LEDs, 1 per phase, 1-Red LED, Form C Contacts, Audible Alarm | | | | | | | | | |
| Response Time | < 0.5 nsec | | | | | | | | | |
| Operating Temperature | -40°C to +60°C | | | | | | | | | |
| Operating Humidity | 0% to 95% Non-condensing | | | | | | | | | |
| Fusing | Thermal and Fault Current | | | | | | | | | |
| Noise Attenuation | 40 dB Max | | | | | | | | | |
| Peak Surge Current Capability | | | | | | | | | | |
| Per Phase Line to Neutral Line to Line Line to Ground Neutral to Ground | 100 kA | 100 kA | 100 kA | 100 kA | 100 kA | 100 kA | 100 kA | 100 kA | 100 kA | 100 kA |
| | 50 kA | 50 kA | N/A | 50 kA | 50 kA | 50 kA | N/A | N/A | 50 kA | 50 kA |
| | 50 kA | N/A | 50 kA | 50 kA | 50 kA | 50 kA | 50 kA | 50 kA | 50 kA | 50 kA |
| | 50 kA | 50 kA | 50 kA | 50 kA | 50 kA | 50 kA | 50 kA | 50 kA | 50 kA | 50 kA |
| | 50 kA | 50 kA | N/A | 50 kA | 50 kA | 50 kA | N/A | N/A | 50 kA | 50 kA |
| Warranty | 10 years | | | | | | | | | |

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