

## 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, 2<sup>nd</sup> 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

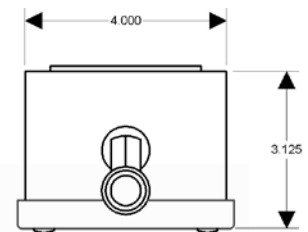
- Power Conditioners
- UPS
- Drive Isolation and K-Factor Transformers

### Selection Table

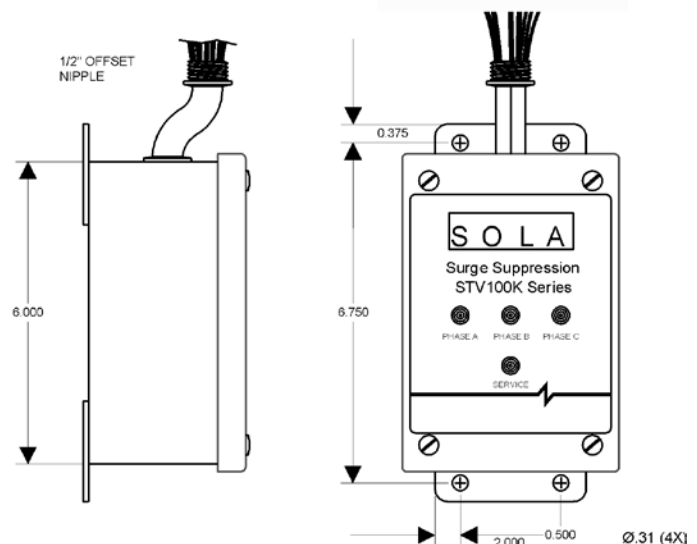
Catalog Number	Input Voltage	
STV 100K-10S	120/240 V	Single Phase 3 wire + Ground
STV 100K-10Y	208Y/120 V	Three Phase Wye 4 wire + Ground
STV 100K-10N	120 V	Single Phase 2 wire + Ground
STV 100K-24L	240 V	Single Phase 2 wire + Ground
STV 100K-23Y	380Y/220 V	Three Phase Wye 4 wire + Ground
STV 100K-27Y	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.



## 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 1449-2, cUL									
<b>UL 1449 (2nd Edition) Suppressor Classification</b>										
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									
<b>Peak Surge Current Capability</b>										
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									