



## STV100K SERIES

The STV100K Series 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 STV100K Series also contains the highest levels of safety built into the product including thermal fusing and a fault current fusing level of 100 kAIC.

### APPLICATIONS

- Distribution Panels (up to 800 A)
- Branch, Lighting and Control Panels
- Factory Automation Installations
- Dedicated Industrial Equipment


### FEATURES

- 100,000 Amps peak current rating provides all mode protection against severe transients
- Low clamping levels for more effective protection
- 100 kAIC fault current fusing level provides safety and NEC conformance
- LED status, audible alarms and form C dry contacts
- Compact, rugged metal
- Ten year limited warranty

### SYSTEM FEATURES

Catalog Number	Input Voltage	
STV100K10S	120/240 V	Single Phase, 3 Wire + Ground
STV100K10Y	208Y/120 V	Three Phase Wye, 4 Wire + Ground
STV100K10N	120 V	Single Phase, 2 Wire + Ground
STV100K24L	240 V	Single Phase, 2 Wire + Ground
STV100K23Y	400Y/230 V	Three Phase Wye, 4 Wire + Ground
STV100K27Y	480Y/277 V	Three Phase Wye, 4 Wire + Ground
STV100K24D	240 V	Three Phase Delta, 3 Wire + Ground
STV100K48D	480 V	Three Phase Delta, 3 Wire + Ground
STV100K10D4	240/120 CT	Three Phase Delta, 4 Wire + Ground
STV100K24D4	480/240 CT	Three Phase Delta, 4 Wire + Ground

### CERTIFICATIONS AND COMPLIANCES

-  us Listed
  - UL 1449, type 2 locations
  - UL Listed/NEMA type 12 enclosure
  - CSA C22.2 No. 8, CSA TI I-IIB, TI A-24
- RoHS Compliant

### RELATED PRODUCTS

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

**SOLAHD**

For product information:  
[www.solahd.com](http://www.solahd.com)  
 1.800.377.4384



**CONSIDER IT SOLVED™**

SPECIFICATIONS

Description	Catalog Number									
	STV100K10S	STV100K10N	STV100K24L	STV100K10Y	STV100K23Y	STV100K27Y	STV100K24D	STV100K48D	STV100K10D4	STV100K24D4
Nominal Input Vac	120/240 V	120 V	240 V	208Y/120 V	400Y/230 V	480Y/277 V	240 V	480 V	240 D/120 V	480 D/240 V
System Configuration	Single Phase, 3 Wire + Ground	Single Phase, 2 Wire + Ground		Three Phase Wye, 4 Wire + Ground			Three Phase Delta, 3 Wire + Ground		Three Phase Delta High Leg, 4 Wire + Ground	
Maximum Continuous Operating Voltage (MCOV)	125% of the nominal level for 120 V; 115% for all other voltages									
Line Frequency	47-63 Hz									
Response Time	< 0.5 nanoseconds									
Short Circuit Current Rating (SCCR)	100 kA									
Fusing	Thermal and Fault Current									
Nominal Discharge Current Rating	20 kA									
Modes of Protection	All Mode: L - N, L - L, L - G, N - G									
Operating Temperature	-40 °C to +60 °C (-40 °F to +140 °F)									
Operating Humidity	0% to 95% Non-condensing									
Noise Attenuation	40 dB max.									
Dimensions - W x D x H - in. (mm)	6.00 x 4.00 x 3.20 (152.4 x 101.6 x 81.3)									
Net Weight - lbs (kg)	8.0 (3.63) max.									
Enclosure	Metal, UL Listed/NEMA Type 12 Enclosure									
Connection/ Mounting Type	Parallel/Flange									
Status Indication	Red and green LED status indicators, audible alarm, form C contacts									
Warranty	10 year limited warranty									
<b>UL 1449, Type 2 Voltage Protection Ratings (VPRs) Vpeak</b>										
Line to Neutral	600 V	600 V	N/A	600 V	1200 V	1200 V	N/A	N/A	600 V	1200 V
Line to Line	1000 V	N/A	1000 V	1000 V	1800 V	1800 V	1000 V	2000 V	1000 V	1800 V
Line to Ground	700 V	700 V	1200 V	700 V	1200 V	1200 V	1200 V	1800 V	700 V	1200 V
Neutral to Ground	600 V	600 V	N/A	600 V	1200 V	1000 V	N/A	N/A	600 V	1200 V
High Leg to Neutral	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1200 V	1800 V
High Leg to Line	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1200 V	1800 V
High Leg to Ground	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1800 V	3000 V
<b>Peak Surge Current Capability</b>										
Per Phase	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA	100 kA
Line to Neutral	50 kA	50 kA	N/A	50 kA	50 kA	50 kA	N/A	N/A	50 kA	50 kA
Line to Line	50 kA	N/A	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
Line to Ground	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA	50 kA
Neutral to Ground	50 kA	50 kA	N/A	50 kA	50 kA	50 kA	N/A	N/A	50 kA	50 kA

United States: 1.800.377.4384 | Asia/Pacific: + 65.6891.7600 | Australia: + 61.3.9721.0387  
 Brazil: São Paulo/SP + 55.11.2122.5777 | Brazil: Camaçari/BA + 55.71.3496.4427 | Canada: + 1.888.765.2226  
 China: + 86.21.3418.3888 | Europe: + 33.3.2254.1390 | Mexico/Latin America: + 52.55.5809.5049  
 Middle East/Africa/India: + 971.4.811.8100  
[www.solahd.com](http://www.solahd.com)

