

STV 200/400K SERIES

SolaHD's STV 200/400K Series includes surge protective devices (SPD) that offer continuous protection from damaging transients and electrical noise. They are capable of handling the high-impulse, potentially damaging transients commonly found at the service-entrance or distribution panels. The modular design of the STV 200/400K allows for installation flexibility. Its robust design allows for placement in the most severe exposure locations.

The STV 200/400K utilizes patented circuitry to monitor the status of all protection modes, including neutral to ground. Should protection be unavailable in any mode, the Green LED will be extinguished and the Red LED will be illuminated. In addition, high-isolation-form C-dry contacts provide remote monitoring of suppression-system failure under voltage, phase and power loss. The STV 200/400K patented suppression-integrity monitoring indicates failure for both shorted or opened suppression components.

These devices are designed to meet UL 1449 (second edition), UL 1283 and cUL Listed. These units are ANSI/IEEE C62.11, C62.41, C62.45 Categories A, B, and C3 tested. They are built to meet your unique requirements, and are available in hardwire, three-phase configuration. They are designed for years of trouble-free operation and require little or no operator intervention after installation.

The STV 200/400K line is one part of a total power quality solution and can be used alone or in conjunction with other SolaHD products to solve more complex power quality problems.

Features

- Modular design allows for flexibility
- Surge-current capacity of 200 to 400 kA per phase
- Industry's highest surge-current repeatability
- All modes transient protection (L-N, L-G and N-G) form C-contact and audible alarm status indications Internal/ external monitoring, including neutral-to-ground UL rated 200 kAIC with component-level fusing for safe operation
- Sine wave tracking, EMI/RFI filtering
- UL 1449 (second edition), UL 1283, and cUL Listed
- ANSI/IEEE C62.11, C62.41, C62.45 Categories A, B and C3 tested
- NEMA 12 enclosure, available options NEMA 3R, 4, and 4X
- Optional rotary disconnect, transient counter and remote-monitor panel
- 5 Year Limited Warranty



Applications

- The STV 200/400K Series can be a facility-wide product family and may be installed from service entrances to distribution panels to branch panels.
- Industrial Plants
- Commercial Buildings
- Institutional Facilities
- Any facility that has an environment with electronics-based equipment

Selection Table

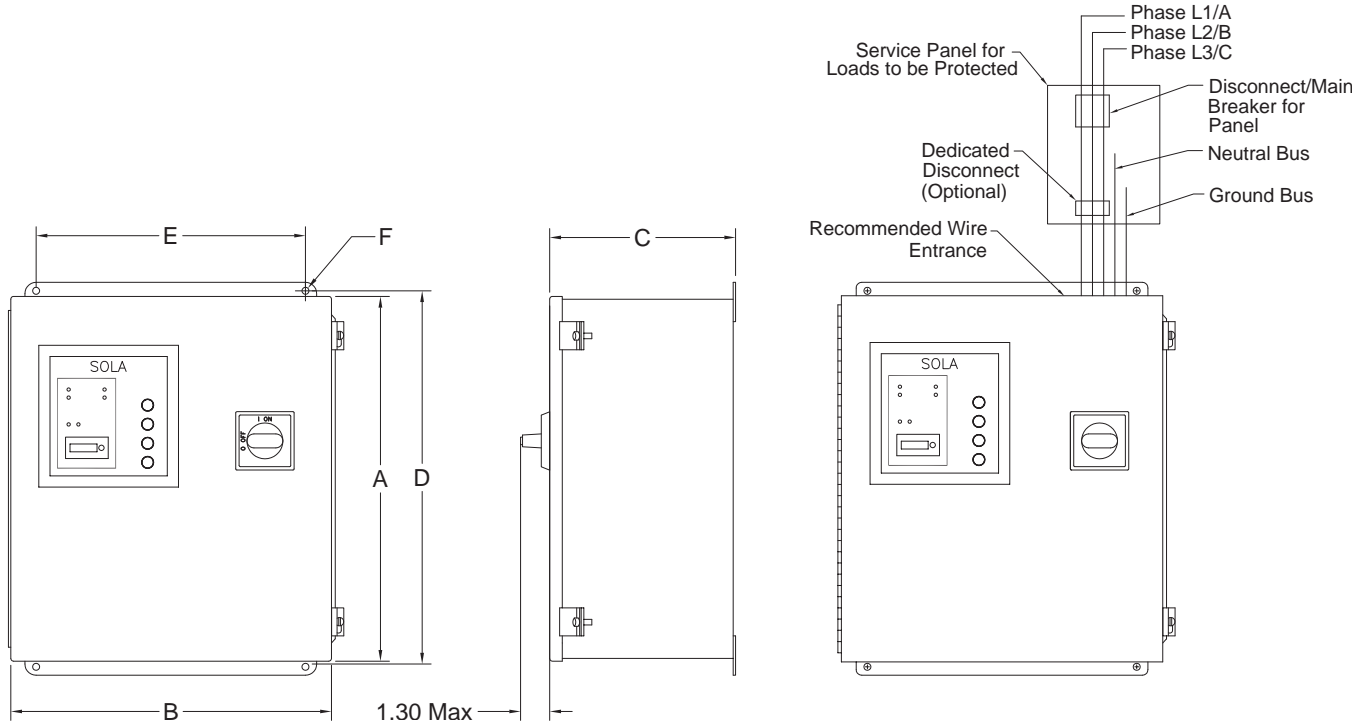
CATALOG NUMBER	INPUT VOLTAGE	
STV 400K-10Y	120/208 V	Three-Phase Wye 4-Wire + Ground
STV 200K-10Y	120/208V	Three-Phase Wye 4-Wire + Ground
STV 400K-27Y	277/480 V	Three-Phase Wye 4-Wire + Ground
STV 200K-27Y	277/480 V	Three-Phase Wye 4-Wire + Ground
STV 400K-48D	480 V	Three-Phase Δ 3-Wire + Ground
STV 200K-48D	480 V	Three-Phase Δ 3-Wire + Ground

Specifications

DESCRIPTION	CATALOG NUMBER					
	STV 200K-10Y	STV 200K-27Y	STV 200K-48D	STV 400K-10Y	STV 400K-27Y	STV 400K-48D
Input Vac	120Y/208 V	277Y/480 V	480 V	120Y/208 V	277Y/480 V	480 V
	Three-Phase Wye, 4-W + G	Three-Phase Wye, 4-W + G	Three-Phase Δ, 3-W + G	Three-Phase Wye, 4-W + G	Three-Phase Wye, 4-W + G	Three-Phase Δ, 3-W + G
Maximum Continuous Operating Voltage (MCOV)	120 V = 125%, all other voltages 115%					
Line Frequency	47 – 63 Hz					
Connection/ Mounting Type	Internally connected/wall-mounted (mounting hardware 1/4 in.)					
Enclosure	NEMA 12 (NEMA 3R, 4, 4x optional)					
Modes of Protection	All modes: L-N, L-L, L-G, N-G					
Safety Agency Approvals	UL 1449, UL 1283, cUL					
UL 1449 (2ND EDITION) SUPPRESSOR CLASSIFICATION						
L-N	400 V	700 V	N/A	400 V	700 V	N/A
L-L	700 V	1,500 V	1,500 V	700 V	1,500 V	1,500 V
L-G	400 V	700 V	1,500 V	400 V	700 V	1,500 V
N-G	400 V	700 V	N/A	400 V	700 V	N/A
AIG Rating	200 kAIC					
Status Indication	LED's status indicator, audible alarm and form 'C' contact only relay					
Response Time	< 0.5 nsec.					
Operating Temperature	-40°C to +50°C					
Operating Humidity	0% to 95% non-condensing					
Noise Attenuation	50 dB maximum					
CIRCUIT AMPACITY LIMITATIONS						
Per Phase	200 kA	400 kA	200 kA	400 kA	200 kA	400 kA
Line to Neutral	100 kA	200 kA	100 kA	200 kA	100 kA	200 kA
Line to Line	100 kA	200 kA	100 kA	200 kA	100 kA	200 kA
Line to Ground	100 kA	200 kA	100 kA	200 kA	100 kA	200 kA
Neutral to Ground	100 kA	200 kA	100 kA	200 kA	100 kA	200 kA
Warranty	5 years					

STV 200/400K SERIES

Dimensional Drawings



Dimensional & Wiring Specifications

STV 200/400K SERIES											
CATALOG NUMBER	DIMENSIONS (INCHES)						WEIGHT LBS (KG)	SUGGESTED BREAKER SIZE	SUGGESTED WIRE SIZE (AWG)	ALLOWABLE BREAKER RANGE	ALLOWABLE WIRE RANGE
	A	B	C	D	E	F					
STV 200K	16.25	14.25	8.25	16.75	12	.31	35 (15.88)	40 A	#8	15 A-100 A	#14-#2
STV 400K	16.25	14.25	8.25	16.75	12	.31	42 (19.05)	100 A	#2	15 A-100 A	#14-#2

STV 200/400K SERIES WITH ROTARY DISCONNECT											
CATALOG NUMBER	DIMENSIONS (INCHES)						WEIGHT LBS (KG)	SUGGESTED BREAKER SIZE	SUGGESTED WIRE SIZE (AWG)	ALLOWABLE BREAKER RANGE	ALLOWABLE WIRE RANGE
	A	B	C	D	E	F					
STV 200K	16.25	14.25	8.25	16.75	12	.31	38 (17.23)	40 A	#8	15 A-175 A	#14-2/0
STV 400K	16.25	14.25	8.25	16.75	12	.31	45 (20.41)	100 A	#2	15 A-175 A	#14-2/0