

SPXV-S SERIES SOLAR FUSE

1500 Vdc • 1 – 30 A



Description

The Littelfuse SPXV-S silver plated solar string fuse is designed specifically for 1-30 A 1500 Vdc applications.

Features/Benefits

- 10 x 85 mm package size
- UL 248-19 Listed
- Meets IEC 60269-6 electrical performance requirements
- Up to 50,000A interrupting rating

Applications

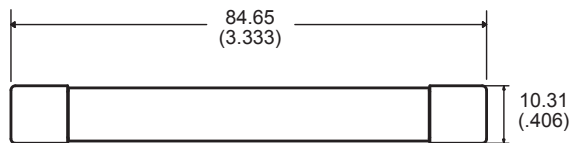
- Inverters
- Combiner boxes

Web Resources

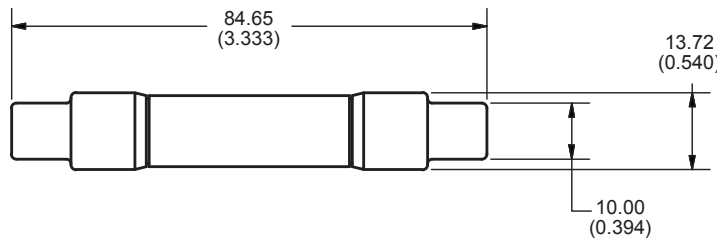
Download technical resources at:
littelfuse.com/spxvs

Dimensions mm (inches)

1 – 20 A



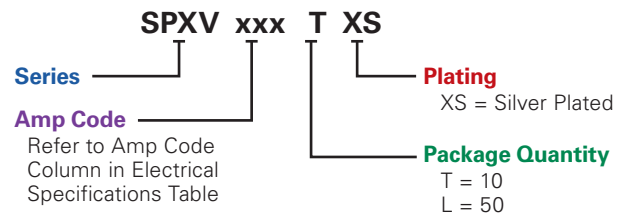
25 – 30 A



Specifications

Voltage Rating	1500 Vdc
Amperage Rating	1, 2, 2.25, 2.5, 3, 3.5, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30 A
Interrupting Rating	15 kA (UL 248-19) 50 kA (Self-Certified) 1A – 20A 30 kA (Self-Certified) 25A – 30A
Time Constant	≤ 1ms
Material	Body: Melamine Caps: Copper Alloy (Silver Plated)
Approvals	UL 248-19 Listed (File: E339112)
Environmental	RoHS Compliant REACH
Country of Origin	Mexico

Part Numbering System



SERIES	AMP	PACKAGE QUANTITY	CATALOG NUMBER	ORDERING NUMBER
SPXVS	6	10	SPXV006-S	SPXV006.TXS
SPXVS	20	50	SPXV020-S	SPXV020.LXS

SPXV-S SERIES SOLAR FUSE

Ordering Information

SERIES	AMPERAGE	AMP CODE	CATALOG NUMBER	PRODUCT MARKING	PACK QUANTITY	ORDERING NUMBER	UPC
SPXV	1	006.	SPXV006-S	SPXV 1-S	10	SPXV001.TXS	07945822105
					50	SPXV001.LXS	07945822106
SPXV	2	008.	SPXV008-S	SPXV 2-S	10	SPXV002.TXS	07945822107
					50	SPXV002.LXS	07945822108
SPXV	2.25	010.	SPXV010-S	SPXV 2 ¼-S	10	SPXV2.25TXS	07945822109
					50	SPXV2.25LXS	07945822110
SPXV	2.5	012.	SPXV012-S	SPXV 2 ½-S	10	SPXV02.5TXS	07945822111
					50	SPXV02.5LXS	07945822112
SPXV	3	015.	SPXV015-S	SPXV 3-S	10	SPXV003.TXS	07945822113
					50	SPXV003.LXS	07945822114
SPXV	3.5	020.	SPXV020-S	SPXV 3 ½-S	10	SPXV03.5TXS	07945822115
					50	SPXV03.5LXS	07945822116
SPXV	4	025.	SPXV025-S	SPXV 4-S	10	SPXV004.TXS	07945819882
					50	SPXV004.LXS	07945819884
SPXV	5	030.	SPXV030-S	SPXV 5-S	10	SPXV005.TXS	07945819886
					50	SPXV005.LXS	07945819888
SPXV	6	006.	SPXV006-S	SPXV 6-S	10	SPXV006.TXS	07945884279
					50	SPXV006.LXS	07945884278
SPXV	8	008.	SPXV008-S	SPXV 8-S	10	SPXV008.TXS	07945884281
					50	SPXV008.LXS	07945884280
SPXV	10	010.	SPXV010-S	SPXV 10-S	10	SPXV010.TXS	07945884283
					50	SPXV010.LXS	07945884282
SPXV	12	012.	SPXV012-S	SPXV 12-S	10	SPXV012.TXS	07945884285
					50	SPXV012.LXS	07945884284
SPXV	15	015.	SPXV015-S	SPXV 15-S	10	SPXV015.TXS	07945884287
					50	SPXV015.LXS	07945884286
SPXV	20	020.	SPXV020-S	SPXV 20-S	10	SPXV020.TXS	07945884289
					50	SPXV020.LXS	07945884288
SPXV	25	025.	SPXV025-S	SPXV 25-S	10	SPXV025.TXS	07945884291
					50	SPXV025.LXS	07945884290
SPXV	30	030.	SPXV030-S	SPXV 30-S	10	SPXV030.TXS	07945884293
					50	SPXV030.LXS	07945884292

Electrical Specifications

AMPERAGE	VOLTAGE	INTERRUPTING RATING		NOM COLD RESISTANCE (ohm)	WATTS LOSS AT 100% RATED CURRENT (W)	WATTS LOSS AT 80% RATED CURRENT (W)	MELTING I ² T (A ² S) 15 kA (1500Vdc)	TOTAL CLEARING I ² T (A ² S) 15 kA (1500 Vdc)
		AC	DC*					
1	1500	—	50kA	0.9256	1.67	0.90	.27	0.48
2	1500	—	50kA	0.2891	2.17	1.10	1.35	3.24
2.25	1500	—	50kA	0.2492	2.43	1.21	1.59	4.44
2.5	1500	—	50kA	0.2234	2.90	1.40	3.68	5.8
3	1500	—	50kA	0.1587	2.91	1.41	6	12
3.5	1500	—	50kA	0.1240	2.95	1.47	10	19
4	1500	—	50kA	0.1229	2.96	1.65	14	24
5	1500	—	50kA	0.0760	3.01	1.66	48	71
6	1500	—	50kA	0.0576	3.05	1.71	49	75
8	1500	—	50kA	0.0349	3.26	1.84	121	214
10	1500	—	50kA	0.0223	3.25	1.82	407	509
12	1500	—	50kA	0.0163	3.34	1.89	798	951
15	1500	—	50kA	0.0131	5.27	3.05	299	637
20	1500	—	50kA	0.0085	5.38	3.14	701	1464
25	1500	—	30kA	0.0064	5.64	3.18	2671	3202
30	1500	—	30kA	0.0052	7.16	3.93	3770	4692

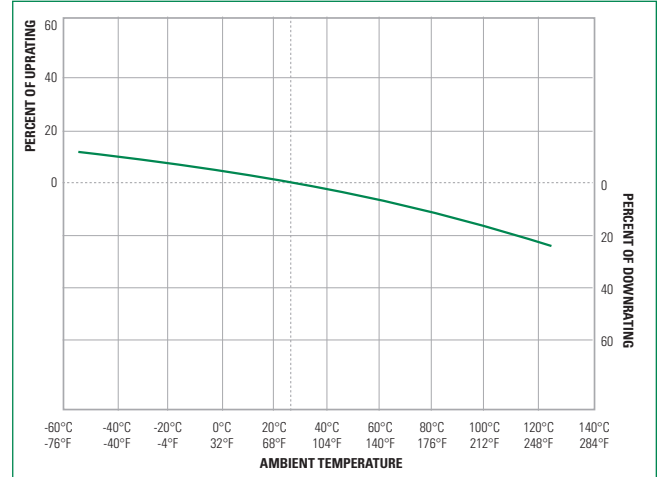
* 15 kA per UL 248-19

SPXV-S SERIES SOLAR FUSE

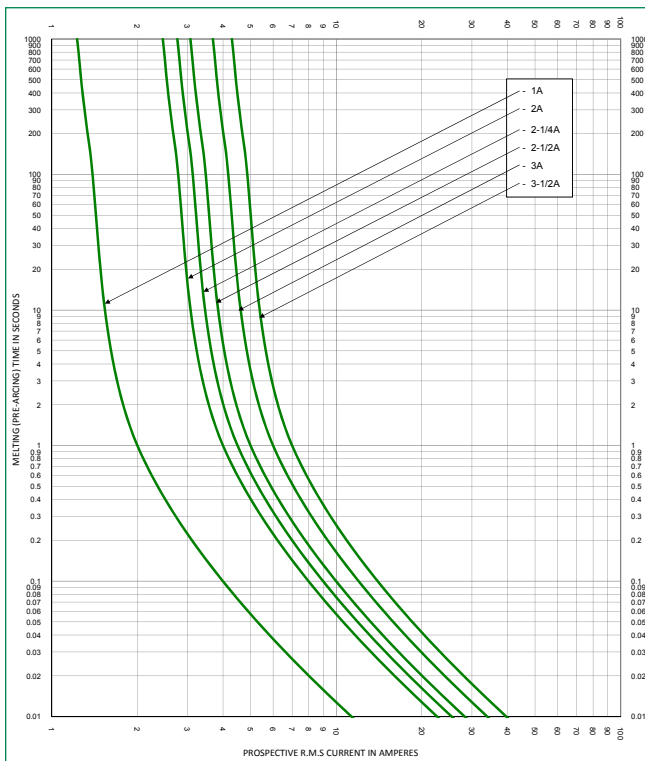
Electrical Specification — Agency Requirements

AMPERE RATING	OPENING TIME (MINUTES)				
	100% of Amp Rating per UL	113% of Amp Rating per IEC	135% of Amp Rating per UL	145% of Amp Rating per IEC	200% of Amp Rating per UL
1-30	Temperature Stabilization	60 Min	60 Max	60 Max	4 Max

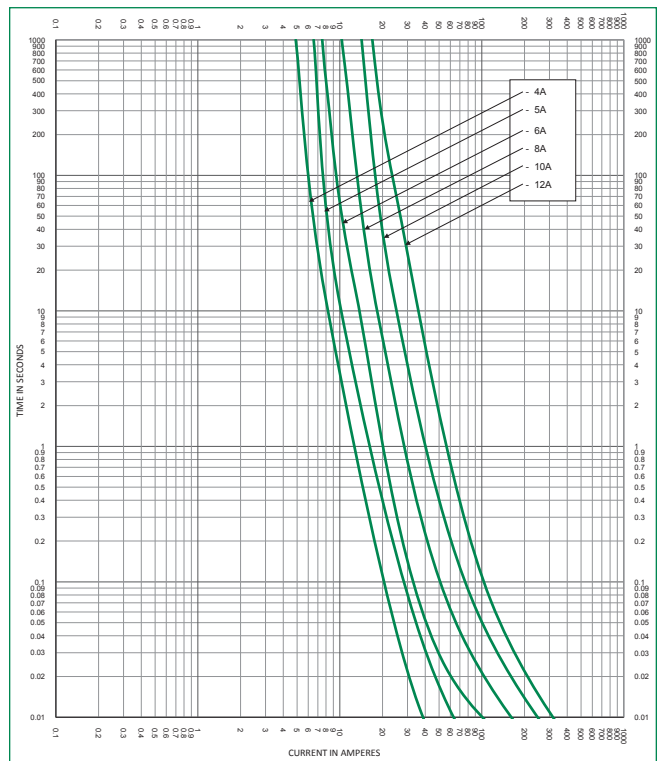
Temperature Derating Curve (Temperature of Air Immediately Surrounding Fuse)



Time Current Curve (1-3.5 A)

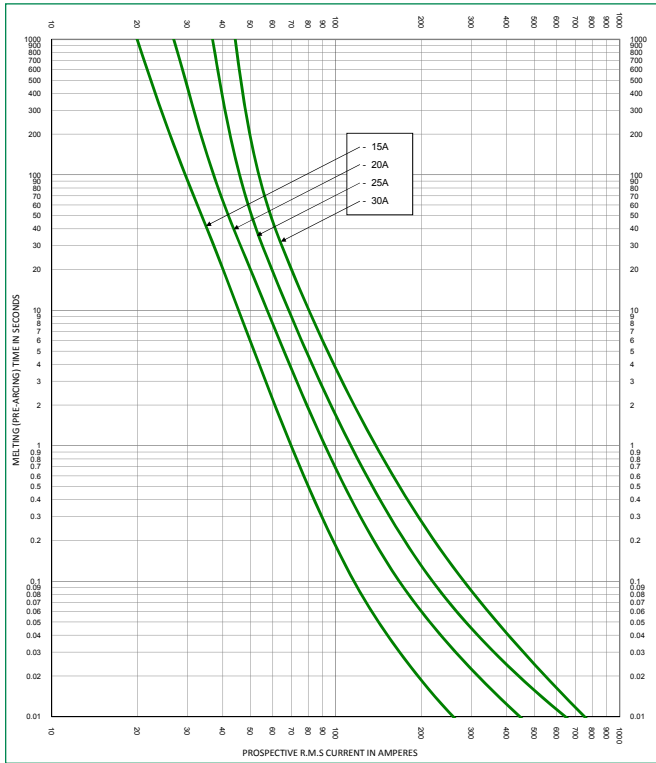


Time Current Curve (4-12 A)



SPXV-S SERIES SOLAR FUSE

Time Current Curve (15-30 A)



Disclaimer Notice – Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at www.littelfuse.com/product-disclaimer.