

# SPXV SERIES SOLAR FUSE

1500 Vdc • 1 – 30 A



## Description

The Littelfuse SPXV 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

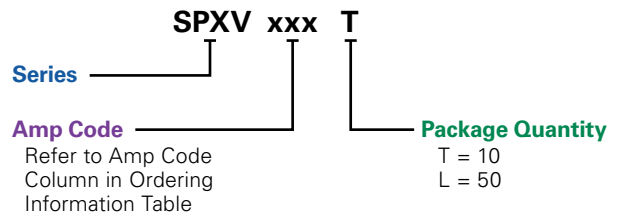
## Web Resources

Download technical resources at: [littelfuse.com/spxv](http://littelfuse.com/spxv)  
For silver plated version: [littelfuse.com/spxvs](http://littelfuse.com/spxvs)

## Specifications

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

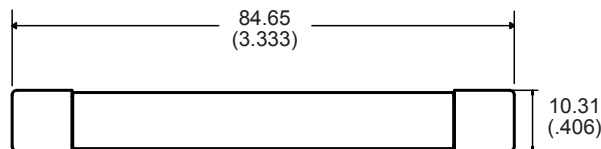
## Part Numbering System



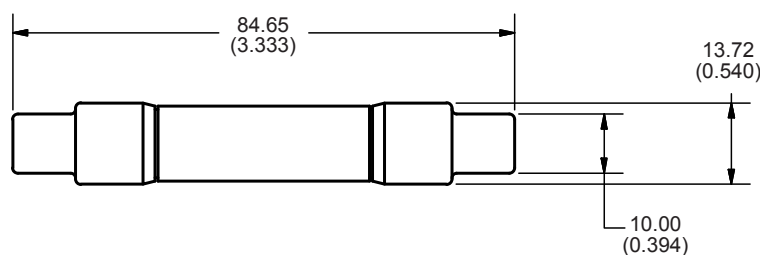
SERIES	AMP	PACKAGE QUANTITY	CATALOG NUMBER	ORDERING NUMBER
SPXV	6	10	SPXV006	SPXV006.T
SPXV	20	50	SPXV020	SPXV020.L

## Dimensions mm (inches)

1 – 20 A



25 – 30 A



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## Ordering Information

SERIES	AMPERAGE	AMP CODE	CATALOG NUMBER	PACK QUANTITY	ORDERING NUMBER	UPC
SPXV	1	001.	SPXV001	10	SPXV001.T	07945822117
				50	SPXV001.L	07945822118
SPXV	2	002.	SPXV002	10	SPXV002.T	07945822119
				50	SPXV002.L	07945822120
SPXV	2.25	2.25	SPXV2.25	10	SPXV2.25T	07945822121
				50	SPXV2.25L	07945822122
SPXV	2.5	02.5	SPXV02.5	10	SPXV02.5T	07945822123
				50	SPXV02.5L	07945822124
SPXV	3	003.	SPXV003	10	SPXV003.T	07945822125
				50	SPXV003.L	07945822126
SPXV	3.5	03.5	SPXV03.5	10	SPXV03.5T	07945822127
				50	SPXV03.5L	07945822128
SPXV	4	004.	SPXV004	10	SPXV004.T	07945819881
				50	SPXV004.L	07945819883
SPXV	5	005.	SPXV005	10	SPXV005.T	07945819885
				50	SPXV005.L	07945819887
SPXV	6	006.	SPXV006	10	SPXV006.T	07945880812
				50	SPXV006.L	07945880811
SPXV	8	008.	SPXV008	10	SPXV008.T	07945880814
				50	SPXV008.L	07945880813
SPXV	10	010.	SPXV010	10	SPXV010.T	07945880816
				50	SPXV010.L	07945880815
SPXV	12	012.	SPXV012	10	SPXV012.T	07945880818
				50	SPXV012.L	07945880817
SPXV	15	015.	SPXV015	10	SPXV015.T	07945880820
				50	SPXV015.L	07945880819
SPXV	20	020.	SPXV020	10	SPXV020.T	07945880822
				50	SPXV020.L	07945880821
SPXV	25	025.	SPXV025	10	SPXV025.T	07945880824
				50	SPXV025.L	07945880823
SPXV	30	030.	SPXV030	10	SPXV030.T	07945880826
				50	SPXV030.L	07945880825

## 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 <sup>2</sup> t (A <sup>2</sup> s) 15 kA (1500Vdc)	TOTAL CLEARING I <sup>2</sup> t (A <sup>2</sup> s) 15 kA (1500 Vdc)
	DC	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	-	50 kA	0.0576	3.05	1.71	49	75
8	1500	-	50 kA	0.0349	3.26	1.84	121	214
10	1500	-	50 kA	0.0223	3.25	1.82	407	509
12	1500	-	50 kA	0.0163	3.34	1.89	798	951
15	1500	-	50 kA	0.0131	5.27	3.05	299	637
20	1500	-	50 kA	0.0085	5.38	3.14	701	1464
25	1500	-	30 kA	0.0064	5.64	3.18	2671	3202
30	1500	-	30 kA	0.0052	7.16	3.93	3770	4692

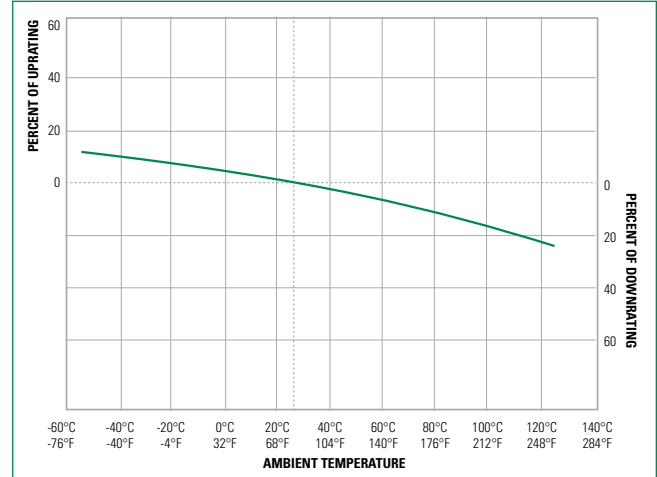
\* 15 kA per UL 248-19

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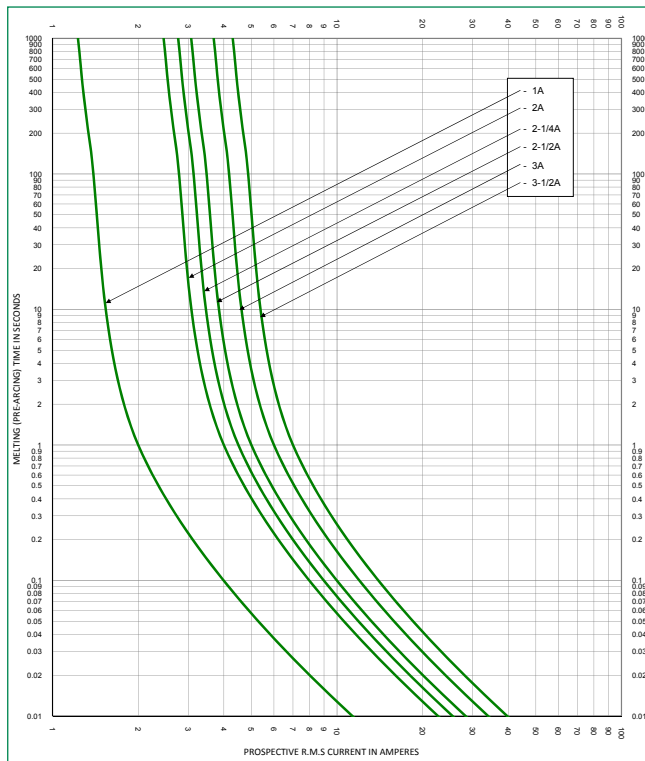
## Electrical Specification — Agency Requirements

AMPERAGE 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

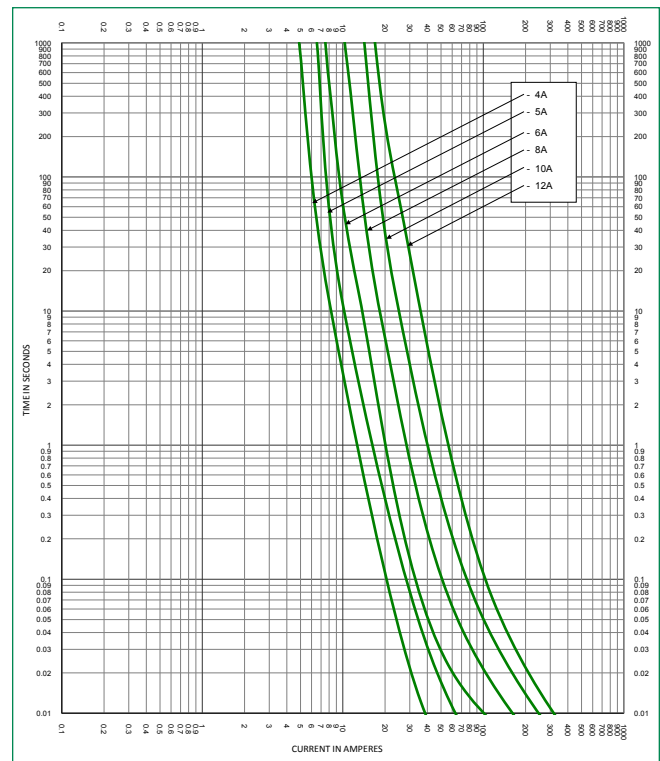
## Temperature Derating Curve (Temperature of Air Immediately Surrounding Fuse)



## Time Current Curve (1-3.5A)



## Time Current Curve (4-12 A)



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## Time Current Curve (15-30 A)

