

POWR-GARD® Fuse

SPXV-S SERIES SOLAR FUSE

1500 V dc • 1 – 20 A

cULus CE gPV RoHS REACH



Description

The Littelfuse SPXV-S Series silver-plated string fuse has been specifically designed for the protection of photovoltaic (PV) systems.

It is available in multiple amperage ratings to match various requirements in a range of applications.

Features/Benefits

- Offers higher amperage protection in less space for increased design flexibility
- Full range, fast-acting fuse helps eliminate common low-overload faults
- Silver-plated caps help improve contact resistance for better conductivity
- Up to 50,000 A interrupting rating

Applications

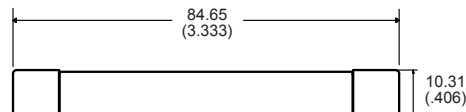
- Inverters
- Combiner boxes

Recommended Crimping Tool

Fuse Holder: LFPXV001
Fuse Clips: 125004/125005

Dimensions mm (inches)

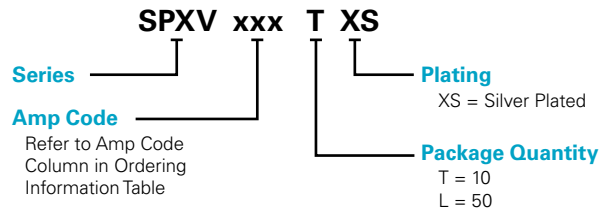
1 – 20 A



Specifications

| | |
|-----------------------------|----------------------------------------------------------------|
| Voltage Rating | 1500 V dc |
| Amperage Rating | 1, 2, 2.25, 2.5, 3, 3.5, 4, 4.5, 5, 6, 8, 10, 12, 15, 16, 20 A |
| Interrupting Rating | 30 kA (50 kA Self-Certified) |
| Time Constant | ≤ 1ms |
| Material | Body: Melamine Caps: Copper Alloy (Silver Plated) |
| Approvals | cULus (File: E339112) |
| Applicable Standards | UL 248-1, 248-19 IEC 60269-6 |
| 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 |

Web Resources

Download technical resources at:
Littelfuse.com/SPXVS

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Ordering Information

| SERIES | AMPERAGE | AMPERE CODE | CATALOG NUMBER | FUSE LABEL ID | PACK QUANTITY | ORDERING NUMBER | UPC |
|--------|----------|-------------|----------------|---------------|---------------|-----------------|-------------|
| SPXV | 1 | 001. | SPXV001-S | SPXV 1-S | 10 | SPXV001.TXS | 07945822105 |
| | | | | | 50 | SPXV001.LXS | 07945822106 |
| SPXV | 2 | 002. | SPXV002-S | SPXV 2-S | 10 | SPXV002.TXS | 07945822107 |
| | | | | | 50 | SPXV002.LXS | 07945822108 |
| SPXV | 2.25 | 2.25 | SPXV2.25-S | SPXV 2 ¼-S | 10 | SPXV2.25TXS | 07945822109 |
| | | | | | 50 | SPXV2.25LXS | 07945822110 |
| SPXV | 2.5 | 02.5 | SPXV02.5-S | SPXV 2 ½-S | 10 | SPXV02.5TXS | 07945822111 |
| | | | | | 50 | SPXV02.5LXS | 07945822112 |
| SPXV | 3 | 003. | SPXV003-S | SPXV 3-S | 10 | SPXV003.TXS | 07945822113 |
| | | | | | 50 | SPXV003.LXS | 07945822114 |
| SPXV | 3.5 | 03.5 | SPXV03.5-S | SPXV 3 ½-S | 10 | SPXV03.5TXS | 07945822115 |
| | | | | | 50 | SPXV03.5LXS | 07945822116 |
| SPXV | 4 | 004. | SPXV004-S | SPXV 4-S | 10 | SPXV004.TXS | 07945819882 |
| | | | | | 50 | SPXV004.LXS | 07945819884 |
| SPXV | 4.5 | 04.5 | SPXV04.5-S | SPXV 4 ½-S | 10 | SPXV04.5TXS | 07945828571 |
| | | | | | 50 | SPXV04.5LXS | 07945828572 |
| SPXV | 5 | 005. | SPXV005-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 | 16 | 016. | SPXV016-S | SPXV 16-S | 10 | SPXV016.TXS | 07945827710 |
| | | | | | 50 | SPXV016.LXS | 07945827708 |
| SPXV | 20 | 020. | SPXV020-S | SPXV 20-S | 10 | SPXV020.TXS | 07945884289 |
| | | | | | 50 | SPXV020.LXS | 07945884288 |

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Electrical Specifications

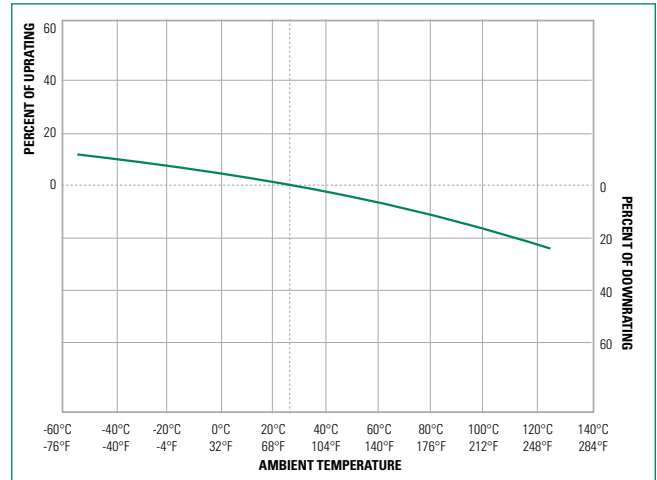
| AMPERAGE | VOLTAGE | INTERRUPTING RATING | NOM COLD RESISTANCE (ohm) | WATTS LOSS AT 100% RATED CURRENT (W) | WATTS LOSS AT 80% RATED CURRENT (W) | MELTING I ² T (A ² S) (1500 V dc) | TOTAL CLEARING I ² T (A ² S) 15 kA (1500 V dc) | TOTAL CLEARING I ² T (A ² S) 30KA (1500 V DC) |
|----------|---------|---------------------|---------------------------|--------------------------------------|-------------------------------------|---------------------------------------------------------|----------------------------------------------------------------------|---------------------------------------------------------------------|
| | DC | DC | | | | | | |
| 1 | 1500 | 50 kA* | 0.926 | 1.67 | 0.90 | 0.27 | 0.5 | — |
| 2 | 1500 | 50 kA* | 0.289 | 2.17 | 1.10 | 1.35 | 3.2 | — |
| 2.25 | 1500 | 50 kA* | 0.249 | 2.43 | 1.21 | 1.59 | 4.4 | — |
| 2.5 | 1500 | 50 kA* | 0.223 | 2.90 | 1.40 | 3.68 | 5.8 | — |
| 3 | 1500 | 50 kA* | 0.159 | 2.91 | 1.41 | 6 | 12 | — |
| 3.5 | 1500 | 50 kA* | 0.124 | 2.95 | 1.47 | 10 | 19 | 16 |
| 4 | 1500 | 50 kA* | 0.123 | 2.96 | 1.65 | 14 | 24 | — |
| 4.5 | 1500 | 50 kA* | 0.102 | 2.81 | 1.61 | 34 | 55 | — |
| 5 | 1500 | 50 kA* | 0.076 | 3.01 | 1.66 | 48 | 71 | — |
| 6 | 1500 | 50 kA* | 0.058 | 3.05 | 1.71 | 49 | 75 | — |
| 8 | 1500 | 50 kA* | 0.035 | 3.26 | 1.84 | 121 | 214 | — |
| 10 | 1500 | 50 kA* | 0.022 | 3.25 | 1.82 | 407 | 509 | — |
| 12 | 1500 | 50 kA* | 0.016 | 3.34 | 1.89 | 798 | 951 | 1154 |
| 15 | 1500 | 50 kA* | 0.013 | 5.27 | 3.05 | 299 | 637 | — |
| 16 | 1500 | 50 kA* | 0.013 | 5.32 | 3.08 | 404 | 666 | — |
| 20 | 1500 | 50 kA* | 0.009 | 5.38 | 3.14 | 701 | 1464 | 1738 |

* Self-certified

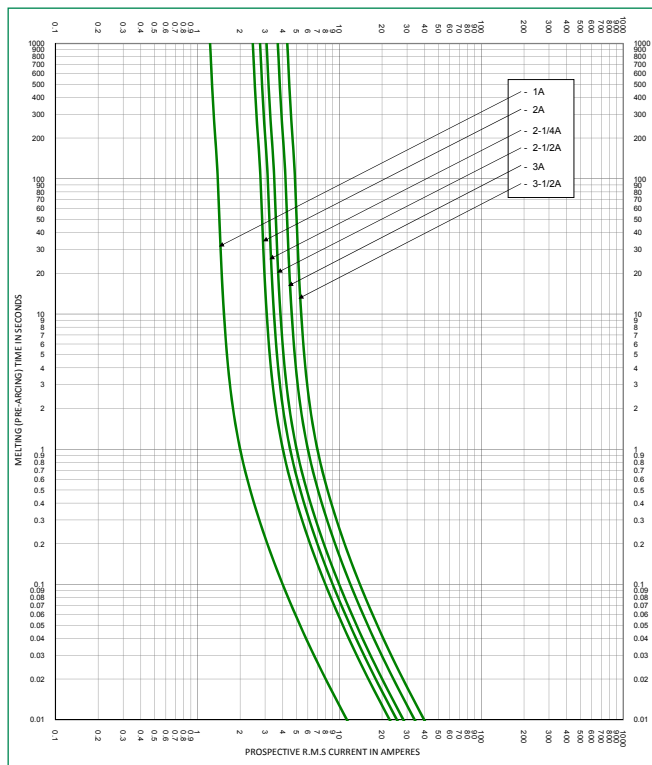
Electrical Specification – Agency Requirements

| AMPERAGE RATING | OPENING TIME (MINUTES) | | | | |
|-----------------|---------------------------------|----------------------------------|---------------------------------|----------------------------------|---------------------------------|
| | 100 % of Amperage Rating per UL | 113 % of Amperage Rating per IEC | 135 % of Amperage Rating per UL | 145 % of Amperage Rating per IEC | 200 % of Amperage Rating per UL |
| 1–20 | Temperature Stabilization | 60 Min | 60 Max | 60 Max | 4 Max |

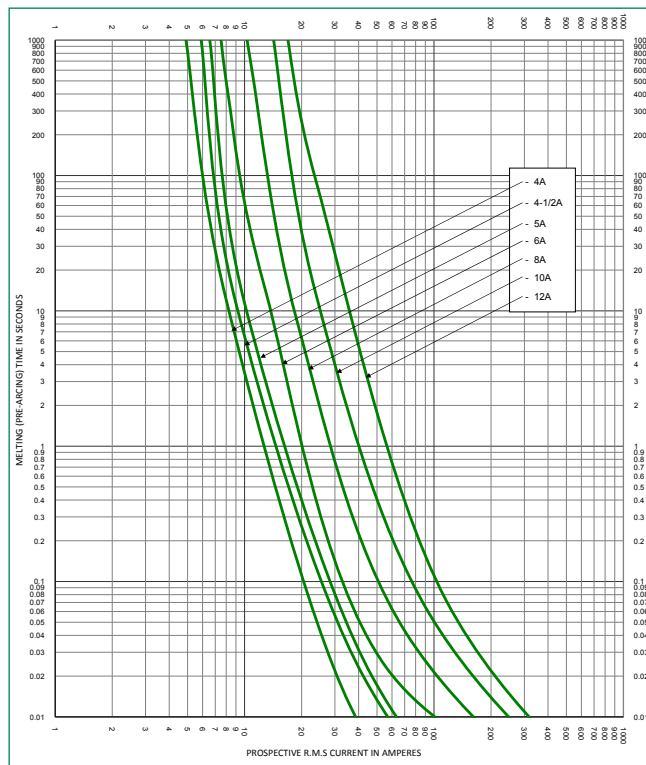
Temperature Derating Curve (Temperature of Air Immediately Surrounding Fuse)



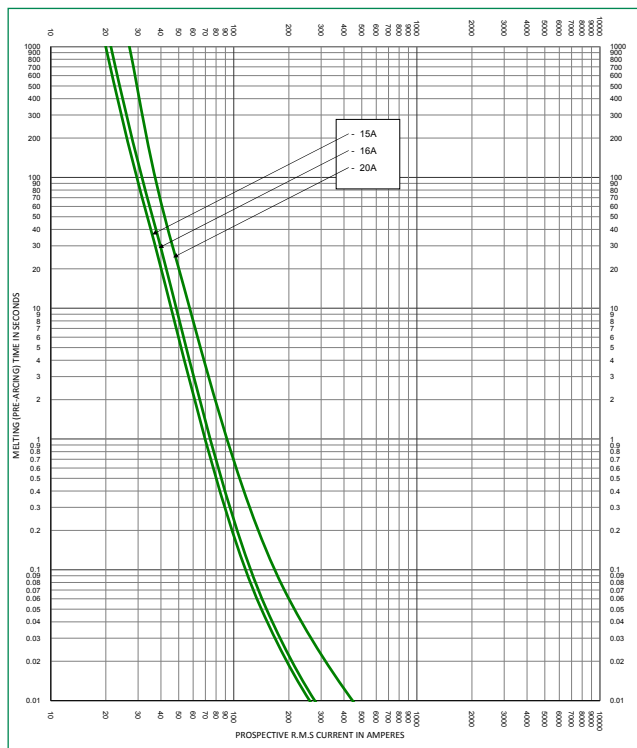
Time Current Curve (1–3.5 A)



Time Current Curve (4–12 A)



Time Current Curve (15–20 A)



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