

# SPNH SERIES SOLAR FUSE

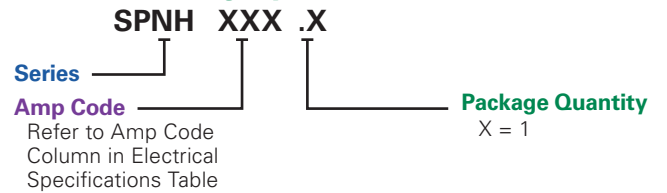
1500 Vdc • 50-400 A • NH Style



## Specifications

<b>Voltage Rating</b>	1500 Vdc
<b>Amperage Rating</b>	50, 63, 80, 100, 125, 160, 200 250 - 400: Consult Factory
<b>Interrupting Rating</b>	15kA (50-200A)
<b>Time Constant</b>	≤ 2ms
<b>Material</b>	Body: Ceramic End Bells: Copper Alloy
<b>Approvals</b>	UL 248-19 Listed (File: E339112, Vol. 4) (50-200A) IEC 60269-6
<b>Environmental</b>	RoHS Compliant

## Part Numbering System



## Description

The SPNH series has been designed to meet the emerging circuit protection needs for 1500 volt photovoltaic systems. These fuses provide full range protection for all potential overcurrent conditions that exist in PV applications. Suitable for PV inverter protection and array combiner applications.

## Features/Benefits

- Meets UL and IEC photovoltaic standards
- Compact NH XL Sizes
- Low Watt Loss Design
- 1500Vdc rating for emerging market needs
- Designed to protect against a full range of overcurrents

## Applications

- Inverters
- Re-combiner boxes
- Array/Re-combiner application
- PV Inverter DC input protection

## Web Resources

Download technical documents: [Littelfuse.com/spnh](http://Littelfuse.com/spnh)

SERIES	AMP	PACKAGE QUANTITY	CATALOG NUMBER	ORDERING NUMBER
SPNH	50	1	SPNH050	SPNH050.X
SPNH	200	1	SPNH200	SPNH200.X

## Recommended Accessories

**Fuse Holder:** LFNH152001CST  
**Fuse Terminal Covers:** LFNH15200FBC

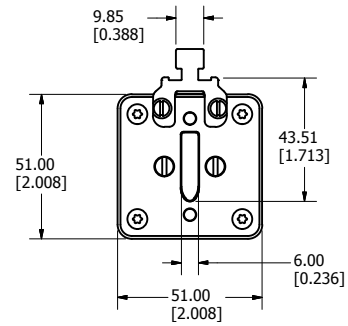
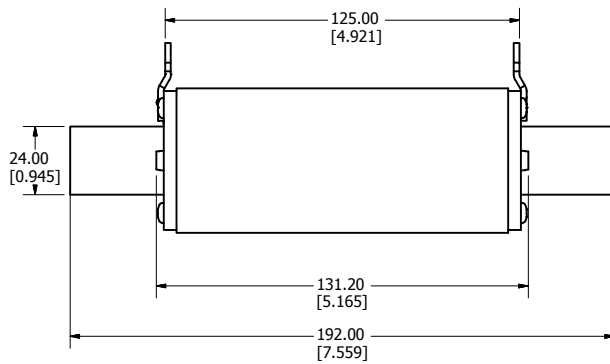


Look for this logo to indicate products that are used in solar applications. Visit our website [Littelfuse.com/solar](http://Littelfuse.com/solar) for the latest updates on approvals, certifications, and new products.

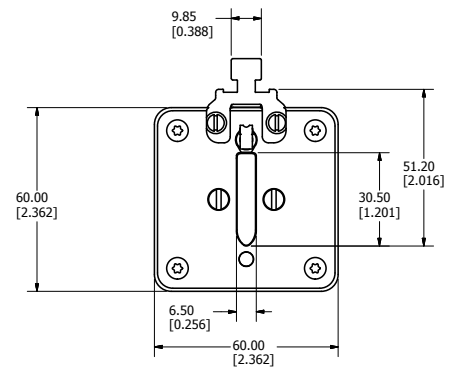
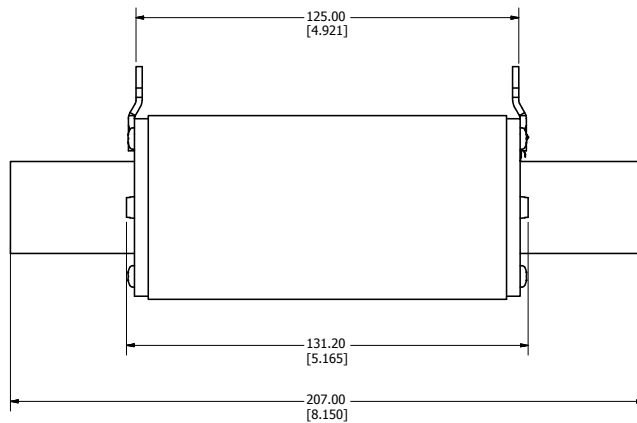
# SPNH SERIES SOLAR FUSE

## Dimensions Millimeters (in)

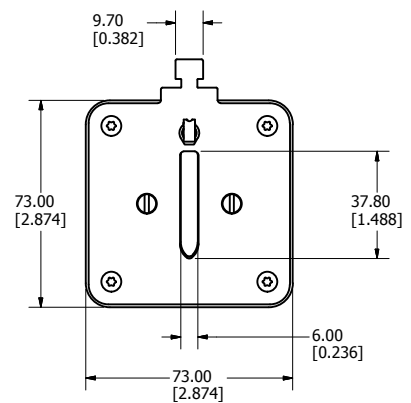
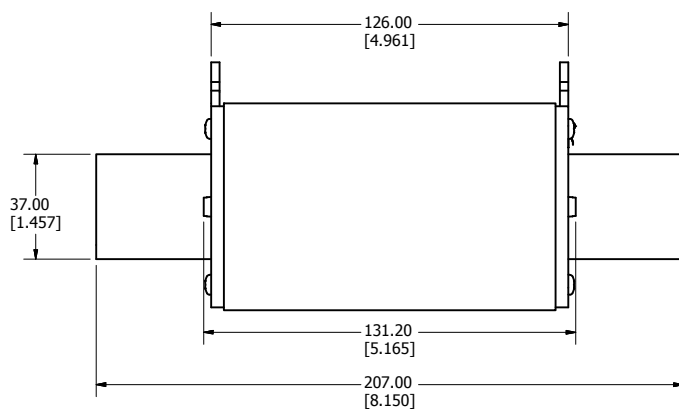
### Size: 1 XL



### Size: 2 XL



### Size: 3 XL



## SPNH SERIES SOLAR FUSE

## Electrical Specifications

CATALOG NUMBER	AMPERAGE RATING	VOLTAGE RATING	INTERRUPTING RATING	NOM COLD RESISTANCE (mΩ)	MELTING I <sup>2</sup> t (10 kA) (1500 Vdc)	TOTAL CLEARING I <sup>2</sup> T (A <sup>2</sup> s) 10 kA (1500 Vdc)	WATTS LOSS AT 100% RATED CURRENT (W)	WATTS LOSS AT 70% RATED CURRENT (W)	SIZE
		DC	DC						
SPNH050	50	1500	15 kA	3.86	800	3,500	14	6	1 XL
SPNH063	63	1500	15 kA	2.72	1,500	6,000	14	6.2	
SPNH080	80	1500	15 kA	2.15	5,000	15,000	16	7	
SPNH100	100	1500	15 kA	1.38	10,000	26,000	19	8.3	
SPNH125	125	1500	15 kA	0.99	15,000	37,000	22	9.7	
SPNH160	160	1500	15 kA	0.78	19,000	48,000	30	13.2	
SPNH200	200	1500	15 kA	0.57	22,000	75,000	32.5	13.7	
SPNH250	250	1500							
SPNH350	315	1500							
SPNH350	350	1500							
SPNH400	400	1500							

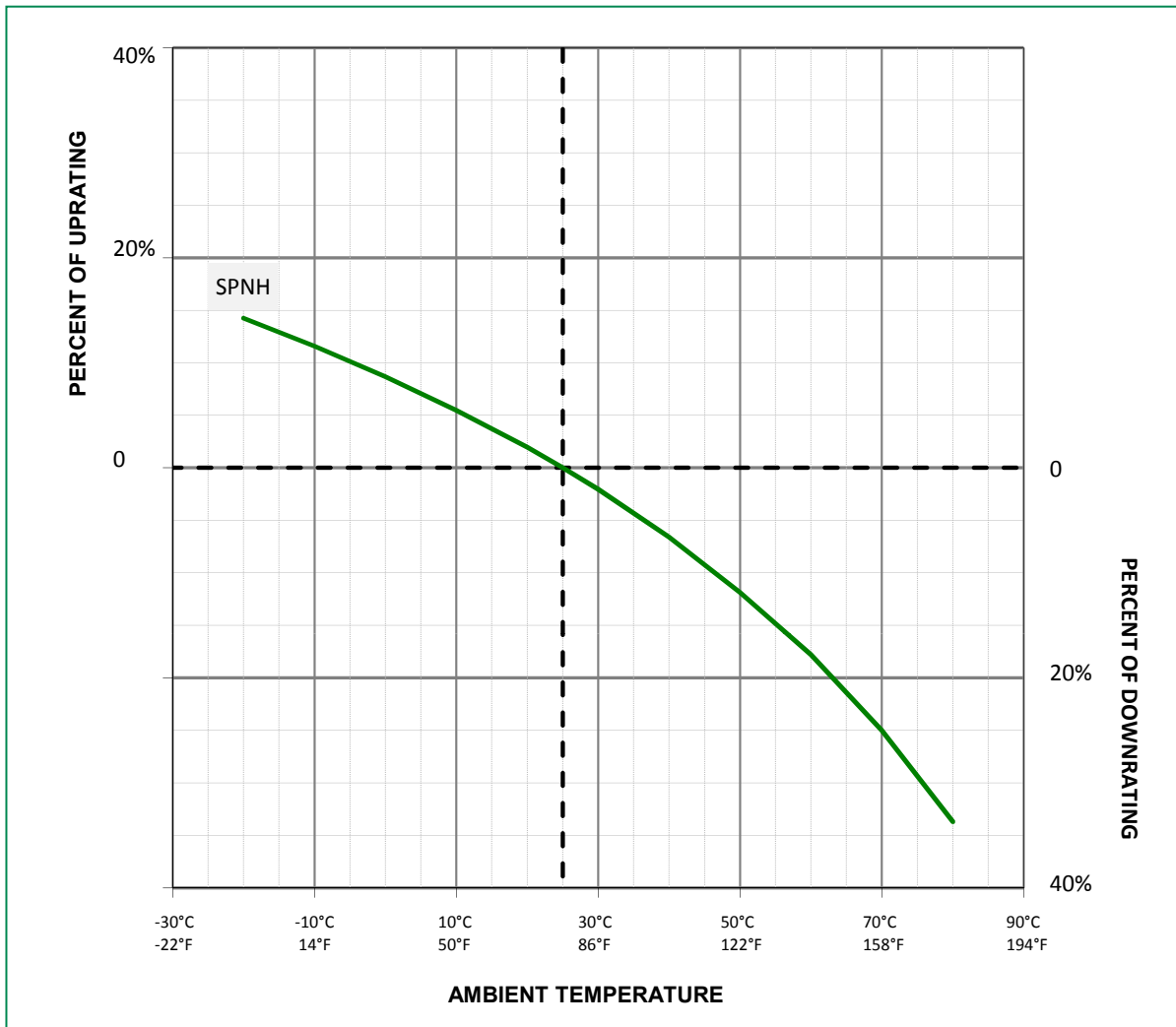
CONSULT FACTORY

## Ordering Information

SERIES	AMPERAGE RATING	AMP CODE	CATALOG NUMBER	ORDERING NUMBER	UPC	AGENCY APPROVALS
						UL
SPNH050	50	050	SPNH050	SPNH050.X	07945804294	•
SPNH063	63	063	SPNH063	SPNH063.X	07945804295	•
SPNH080	80	080	SPNH080	SPNH080.X	07945804319	•
SPNH100	100	100	SPNH100	SPNH100.X	07945804359	•
SPNH125	125	125	SPNH125	SPNH125.X	07945804433	•
SPNH160	160	125	SPNH160	SPNH160.X	07945804443	•
SPNH200	200	160	SPNH200	SPNH200.X	07945804552	•
SPNH250	250	250	SPNH250			
SPNH315	315	315	SPNH315			
SPNH350	350	350	SPNH350			
SPNH400	400	400	SPNH400			

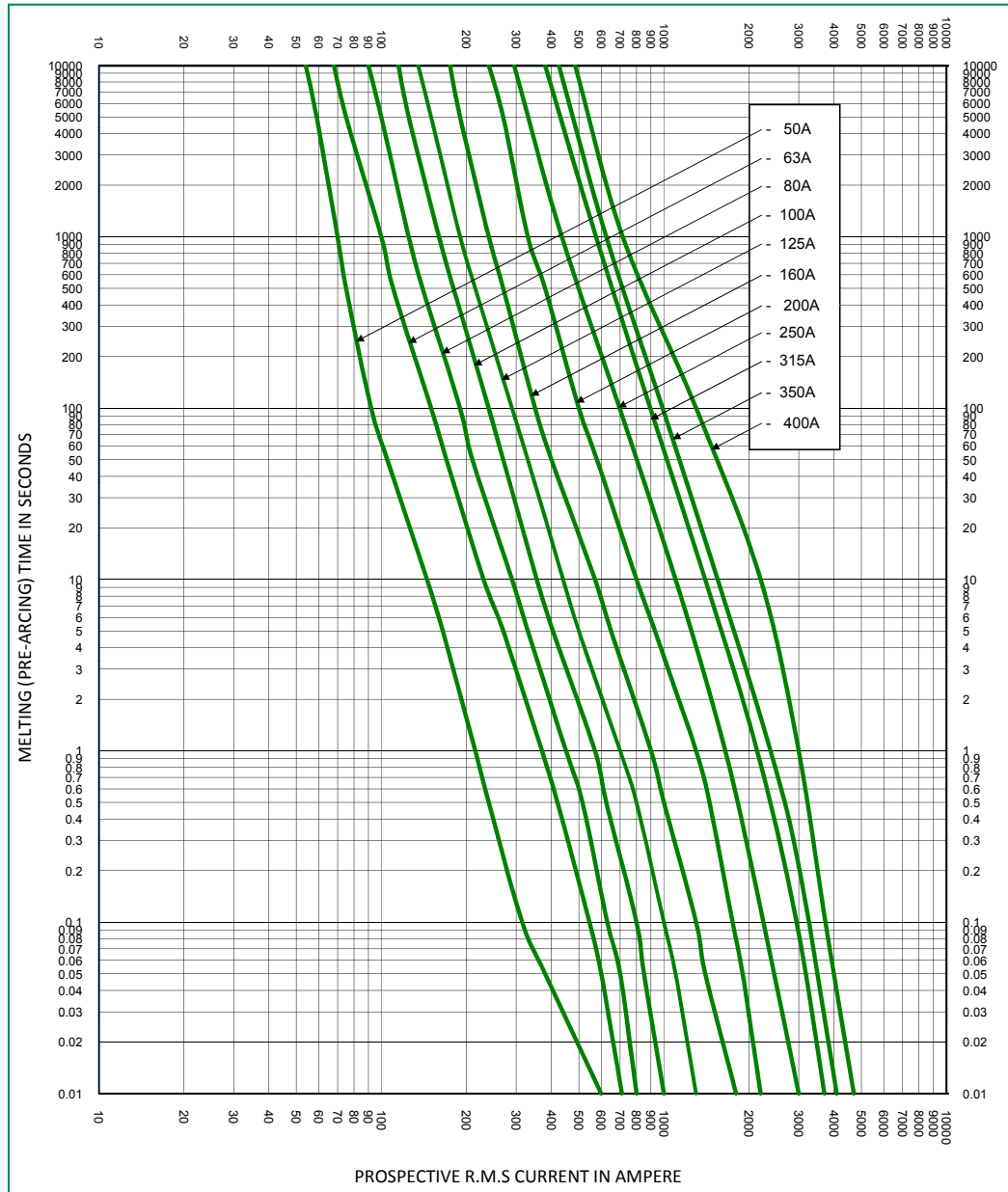
CONSULT FACTORY

Temperature Derating Curve (Temperature of Air Immediately Surrounding Fuse)



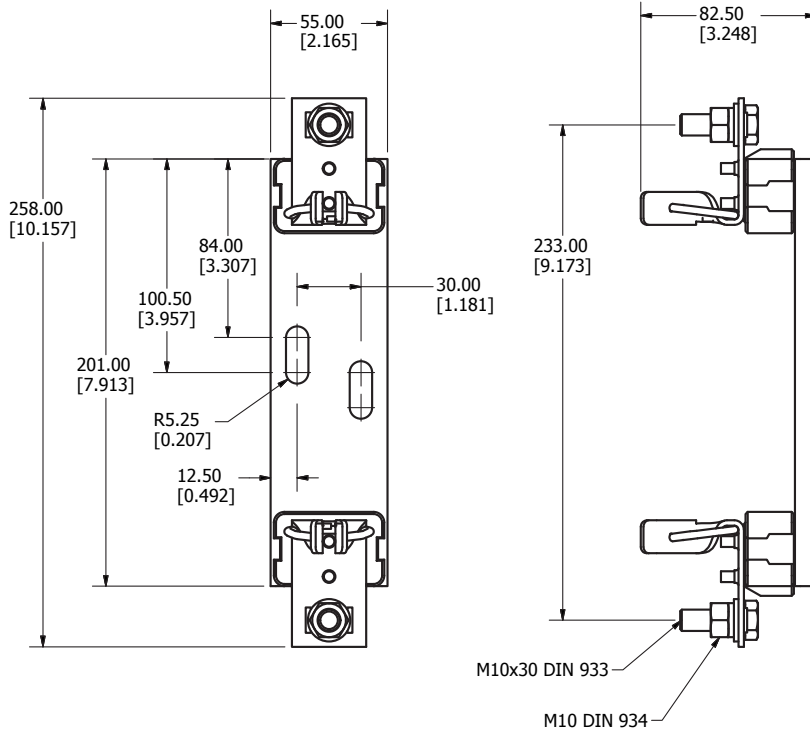
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## Time Current Curve



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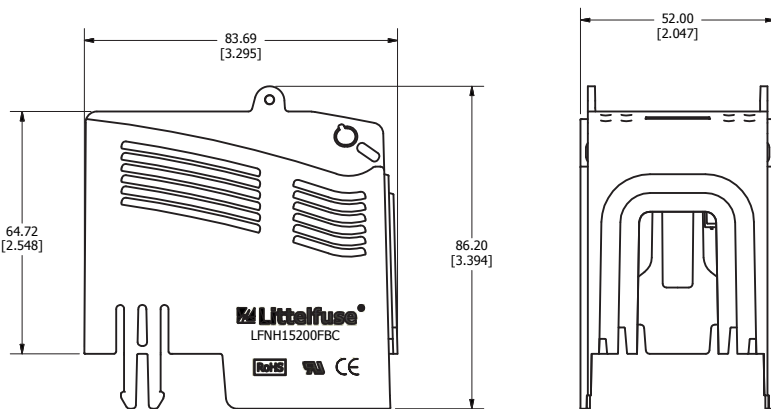
## Dimensions Millimeters (in)



### Fuseholder LFNH152001CST

#### Specifications

<b>Voltage Rating:</b>	1500V
<b>Ampere Rating:</b>	200A
<b>Approvals:</b>	UL Recognized (E345481, Vol 2)
<b>Recommended Torque:</b>	Mounting Plate: 15 N-m Terminal: 32N-m
<b>Material:</b>	Fuse Clip: Silver Plated Copper Spring: Zinc Plated Steel Mounting Plate: Zinc Plated Steel Insulator: Ceramic



### Fuse Terminal Cover LFNH15200FBC

#### Specifications

<b>Voltage Rating:</b>	1500V
<b>Ampere Rating:</b>	200A
<b>Flammability Rating:</b>	UL94 V-0
<b>Material:</b>	V0 rated Nylon
<b>Packaging:</b>	Sold in pairs