Bourns® Model PF-E and PF-H (gPV) Series Photovoltaic Power Fuses

POWrFuse™ High-Power Fuses

INTRODUCTION
Bourns® POWrFuse™ High-Power Fuses are industrial fuse links designed to meet UL 248 and IEC 60269 standards. In particular, POWrFuse™ Model PF-E and PF-H (gPV) are designed to meet UL 248-19 and IEC 60269-6 (class gPV) photovoltaic standards to help protect PV systems under extreme ambient temperature, high-cycling, and low-level fault current conditions.

POWrFuse™ Models PF-E and PF-H (gPV) are midget-style fuses (10 mm dia. x 38 mm) and are commonly installed in solar combiner boxes that have a DC interrupting rating of up to 150 kA.

FEATURES
• Designed to meet UL 248-19 and IEC 60269-6 (class gPV) photovoltaic standard
• Fast-acting protection under fault current
• Low resistance and power loss
• Up to 150 kA interrupting rating
• Temperature range: -55 to +125 °C
• Ferrule and PCB mounting options
• RoHS compliant*
• Halogen free**

BENEFITS
• Bourns’ world-class quality, global strength with localized support
• Both models’ compliance with industry standards and their robust interrupting rating help ensure safety and quality as well as minimal service calls, thereby minimizing the Total Cost of Ownership (TCO)
• Offers a complete solution with the added benefit of Bourns® high current rating overvoltage protectors (up to 150 kA). For details, see “MORE INFORMATION”

APPLICATIONS
• Solar combiner boxes and inverters
• Battery charge controllers
• Solar string protectors
• Power supplies
• Desktop meters

MORE INFORMATION
• AC Power SPD: 1250 Series
• DC Power SPD: 1420 Series
• Power TVS (PTVS) Diodes
• High Energy MOVs
• High Current GDTs

HOW TO ORDER
POWrFuse™ Product Designator
Series Name
Mounting Type
C1 = Ferrule/Type 1
T1 = PCB Mounting/Type 1
Rated Current
15-30 = 15 A - 30 A

PACKAGING SPECIFICATIONS
PF-EC1/PF-HC1 Series ............... 10 pcs./box
PF-ET1/PF-HT1 Series ............... 50 pcs./tray

** Bourns considers a product to be “halogen free” if (a) the Bromine (Br) content is 900 ppm or less; (b) the Chlorine (Cl) content is 900 ppm or less; and (c) the total Bromine (Br) and Chlorine (Cl) content is 1500 ppm or less.

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**ELECTRICAL CHARACTERISTICS**

<table>
<thead>
<tr>
<th>Series</th>
<th>Rated Current</th>
<th>Rated Voltage</th>
<th>Interrupting Rating</th>
<th>UL Listed</th>
<th>Mounting Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>PF-E</td>
<td>15 – 30 A</td>
<td>1000 VDC</td>
<td>20 kA @ 1000 VDC</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>PF-H (gPV)</td>
<td>15 – 30 A</td>
<td>600 VAC 600 VDC</td>
<td>150 kA @ 600 VAC 50 kA @ 600 VDC 10 kA @ 600 VDC</td>
<td>√</td>
<td>√</td>
</tr>
</tbody>
</table>

**PRODUCT DIMENSIONS**

<table>
<thead>
<tr>
<th>Ferrule (C1)</th>
<th>PCB Mounting (T1)</th>
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</thead>
<tbody>
<tr>
<td><img src="image1.png" alt="Ferrule diagram" /></td>
<td><img src="image2.png" alt="PCB Mounting diagram" /></td>
</tr>
</tbody>
</table>

**DIMENSIONS:**

- Ferrule (C1): 38.0 ± 0.6 (1.496 ± 0.024) [MM (INCHES)]
- PCB Mounting (T1): 39.35 ± 0.5 (1.549 ± 0.020) [MM (INCHES)]