



NEW PRODUCT BRIEF

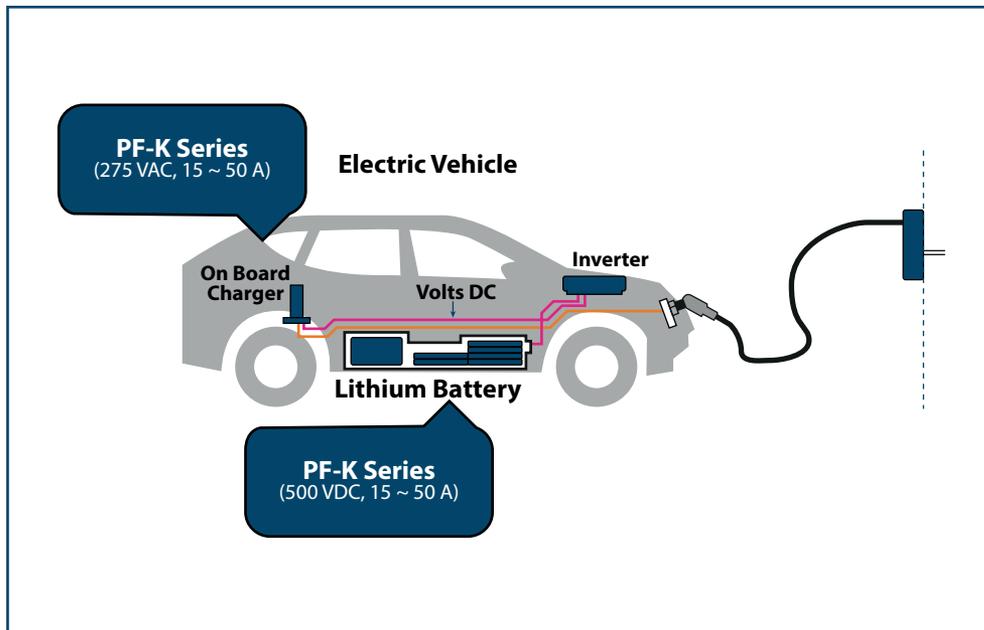
Bourns® PF-K Series EV Power Fuses

POWRfuse™ High-Power Fuses

INTRODUCTION

Bourns® POWrFuse™ High-Power Fuses are industrial fuse links designed to meet UL 248 and IEC 60269 standards. The new POWrFuse™ PF-K model series are designed to meet the ISO 8820 standard to protect high-voltage accessory circuits in electric vehicles and hybrid electric vehicles.

POWRfuse™ PF-K models are housed in a midget style package (10 mm dia. x 38 mm) with bolt and PCB mounting options for Level 1/2 EV/HEV AC/DC inverter and Level 3 battery charging systems.



FEATURES

- ISO 8820-8 compliant
- Designed for protection of high-voltage accessory circuits in EV and HEV
- 15-50 A ratings available
- 10 kA @ 275 VAC interrupting rating
- Bolt and PCB mounting options
- Temperature range: -55 to +125 °C
- RoHS compliant*
- Halogen free**

BENEFITS

- Global quality with local services
- The standard compliance and robust interrupting rating help to ensure the safety and quality as well as minimal service calls, thereby minimizing the Total Cost of Ownership (TCO)
- Complete solution with Bourns® high current rating overvoltage protectors is listed under "MORE INFORMATION"

APPLICATIONS

- EV/HEV
- Electrical Energy Storage
- Battery pack protection
- Battery Disconnect Unit (BDU)
- Battery charger

MORE INFORMATION

- [AEC-Q Compliant Products](#)
- [Automotive Component Selection Guide](#)
- [Heaters](#)
- [SinglFuse™ SMD Fuses - AEC-Q200-Equivalent Compliant](#)

HOW TO ORDER

POWRfuse™ Product Designator **PF - K xx - xx**
 Series Name _____
 Mounting Type _____
 B1 = Bolt Mounting/Type 1
 T1 = PCB Mounting/Type 1
 Rated Current _____
 15-50 = 15 - 50 A

PACKAGING SPECIFICATIONS

PF-KB1 Series 40 pcs./box
 PF-KT1 Series 50 pcs./box

*RoHS Directive 2015/863, Mar 31, 2015 and Annex.
 **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.



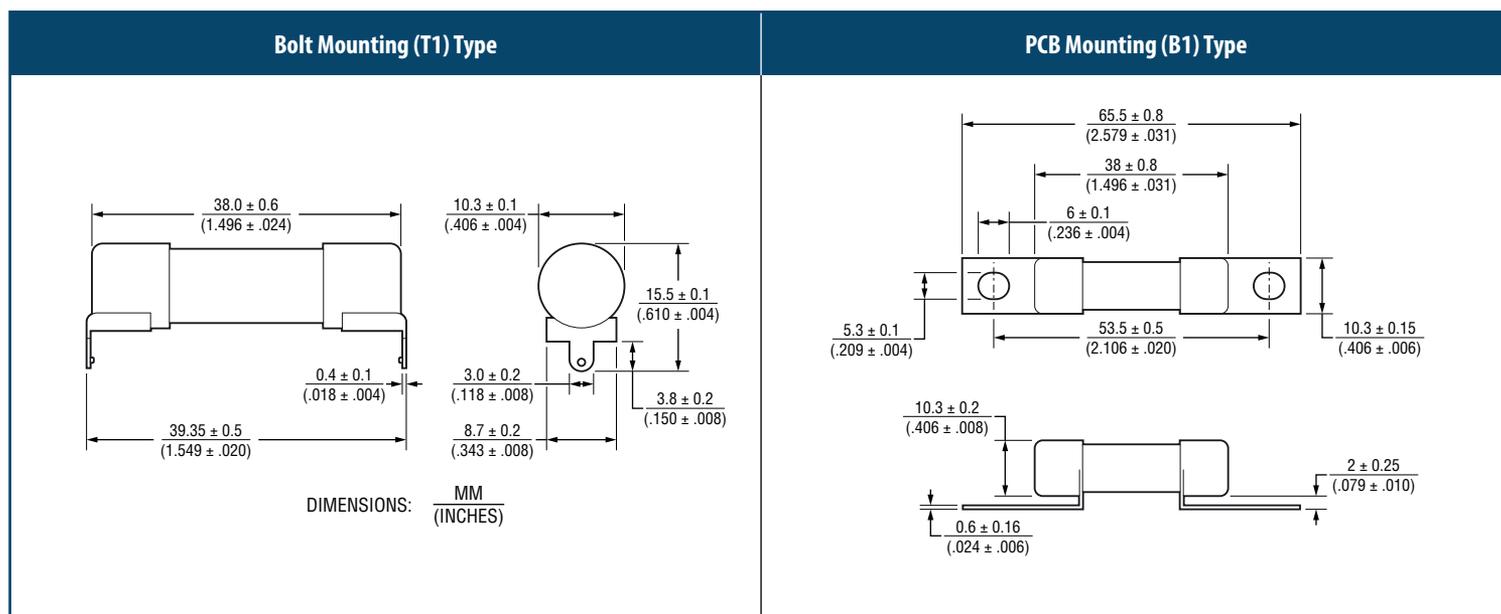
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ELECTRICAL CHARACTERISTICS

| Series | Rated Current | Rated Voltage | Interrupting Rating | Compliant | Mounting Type | |
|--------|---------------|--------------------|---|-----------|--------------------|-------------------|
| | | | | | Bolt Mounting (B1) | PCB Mounting (T1) |
| PF-K | 15 – 50 A | 275 VAC 500 VDC | 10 kA @ 275 VAC 20 kA @ 500 VDC 10 kA @ 450 VDC | ISO 8820 | ✓ | ✓ |

PRODUCT DIMENSIONS



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