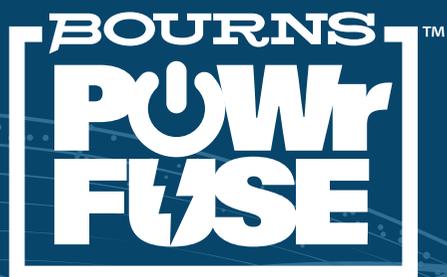


# POWrFuse™

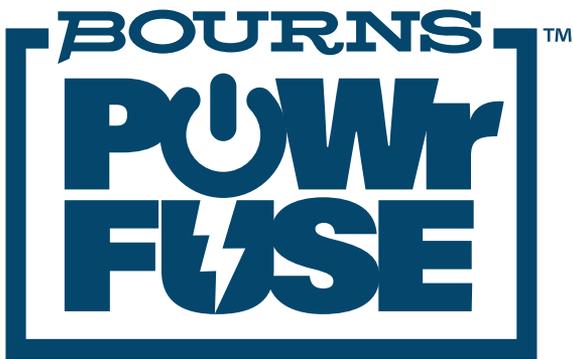
## High-Power Fuses



# Overview

Bourns® POWrFuse™ High-Power Fuses are industrial fuse links designed to UL 248, IEC 60269 and ISO 8820 standards in order to withstand extreme ambient temperatures, high-cycling and low-level fault current conditions. POWrFuse™ High-Power Fuses are rated at extremely high interrupting currents, providing reliable overcurrent and short-circuit protection, and are housed in various mounting configurations to accommodate customers' design requirements. These products are targeted at applications including

but not limited to EV/HEV, battery management systems, power supplies, DC-DC converters, telecom systems, photovoltaic power systems, industrial controllers and charging stations. Along with Bourns® overvoltage protection products such as [SPDs](#), [PTVS Diodes](#), [High Energy MOVs](#) and [High Current GDTs](#), the complete circuit protection solution can be installed.



## Semiconductor



## Electric Vehicle



## Photovoltaic



## Industrial

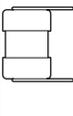
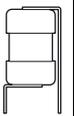
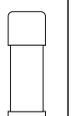
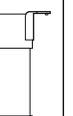
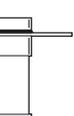
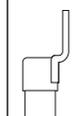
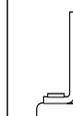


## Telecom



# The Bourns® product portfolio of POWrFuse™ High-Power Fuses offer solutions for a variety of market segments

## Product Line Chart

Category	Series													
Telecom	PF-N	40 A	80 A											
Photovoltaic	PF-E			15 A	30 A									
	PF-H (gPV)			15 A	30 A									
Industrial	PF-J					30 A	70 A							
	PF-G					63 A	90 A							
	PF-H (Ind)			6 A	12 A									
Electric Vehicle	PF-K				15 A	50 A		15 A	50 A					
Semiconductor	PF-M							50 A	180 A					
	PF-F									50 A	150 A	160 A	400 A	



## How to Order

**PF - x xx - xx**

POWrFuse™ Product Designator \_\_\_\_\_

Series Name \_\_\_\_\_

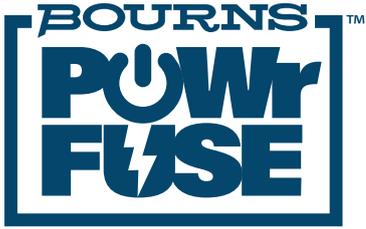
Mounting Type \_\_\_\_\_

- C1 = Ferrule/Type 1
- B1 = Bolt Mounting/Type 1
- B2 = Bolt Mounting/Type 2
- T1 = PCB Mounting/Type 1
- T2 = PCB Mounting/Type 2
- T3 = PCB Mounting/Type 3
- T5 = PCB Mounting/Type 5

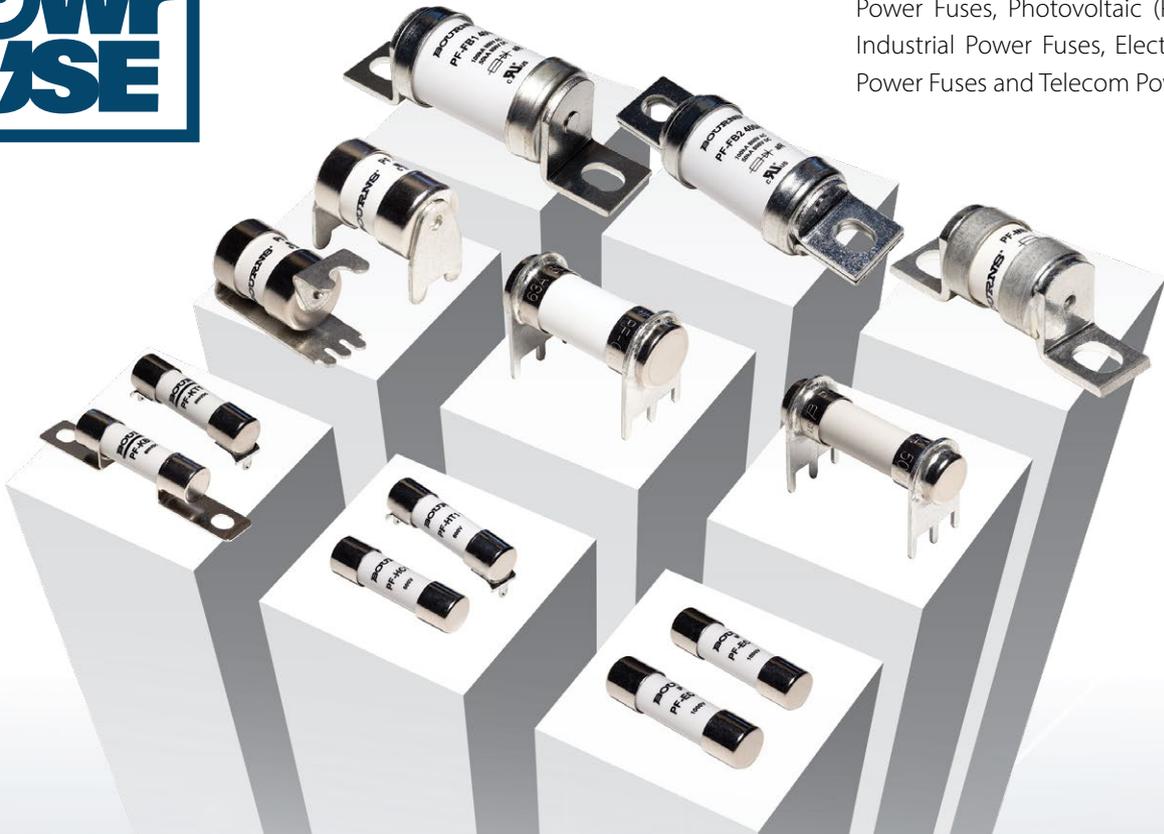
Rated Current \_\_\_\_\_

- 6 = 6 A
- 30 = 30 A
- 100 = 100 A

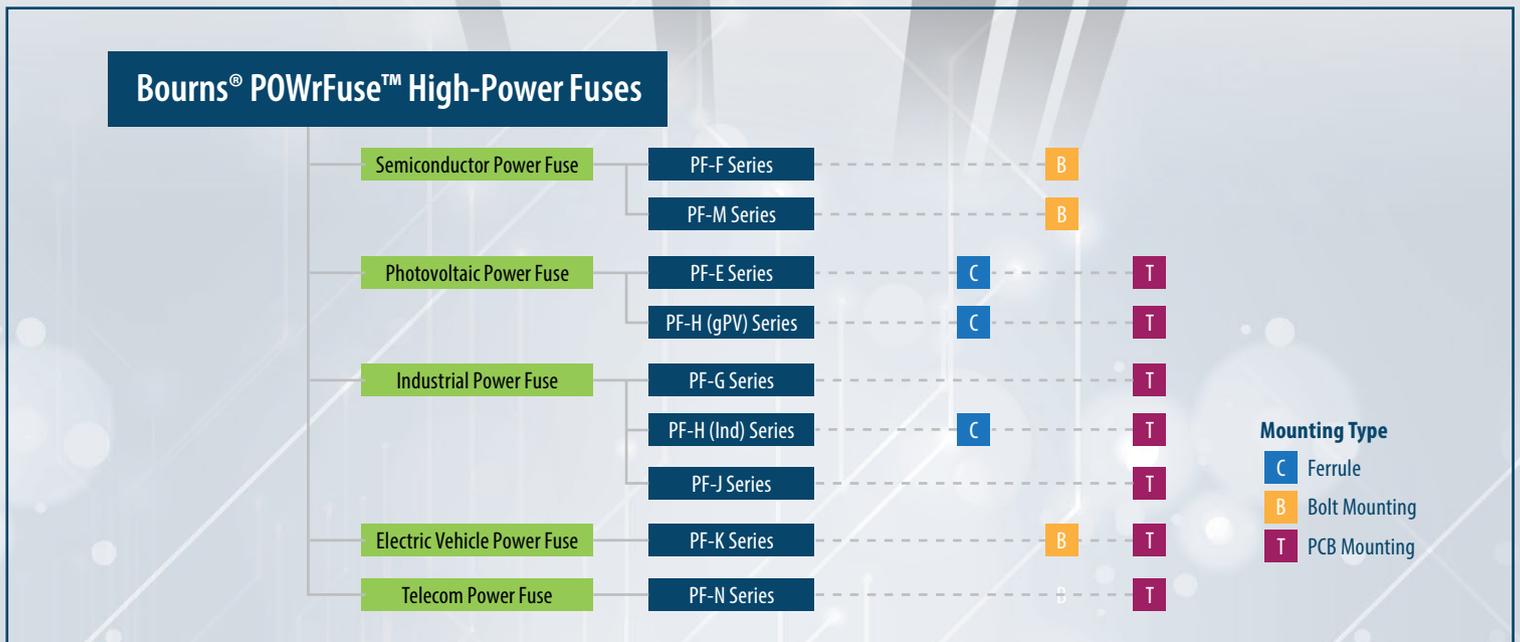
# POWrFuse™ High-Power Fuses



POWrFuse™ High-Power Fuses are classified into five categories, including Semiconductor Power Fuses, Photovoltaic (PV) Power Fuses, Industrial Power Fuses, Electrical Vehicle (EV) Power Fuses and Telecom Power Fuses.



## Market Segment Portfolio



## Photovoltaic (Class gPV)

Series	Photo	Rated Current	Rated Voltage	Interrupting Rating	C  US		Mounting Type	
							Ferrule	PCB Mounting
PF-E		15 – 30 A	1000 VDC	20 kA @1000 VDC	✓		✓	✓
PF-H (gPV)		15 – 30 A	600 VAC 600 VDC	150 kA @ 600 VAC 50 kA @ 600 VDC 10 kA @ 600 VDC	✓	✓	✓	✓

## Semiconductor (Class aR)

Series	Photo	Rated Current	Rated Voltage	Interrupting Rating	C  US	Bolt Mounting	
						B1 Type	B2 Type
PF-F		50 – 400 A	800 VAC 800 VDC	100 kA @ 800 VAC 50 kA @ 800 VDC	✓	✓	✓
PF-M		50 – 180 A	240 VAC 150 VDC	160 kA @ 240 VAC 50 kA @ 150 VDC	✓	✓	

## Industrial

Series	Photo	Rated Current	Rated Voltage	Interrupting Rating	Agency Recognition	Mounting Type		
						Ferrule/C1	PCB/T1	PCB/T3
PF-J		30 – 70 A	500 VAC 125 VDC	2000 A @ 500 VAC 2000 A @ 250 VAC 1000 A @ 125 VDC	C  US			✓
PF-G		63 A	600 VAC 125 VDC	1500 A @ 600 VAC 2000 A @ 250 VAC 500 A @ 125 VDC	C  US			✓
		90 A	500 VAC	1500 A @ 500 VAC				
PF-H (Ind)		6 – 12 A	600 VAC 600 VDC	100 kA @ 600 VAC 100 kA @ 600 VDC	C  US	✓	✓	

## Telecom

Series	Photo	Rated Current	Rated Voltage	Interrupting Rating	C  US	PCB Mounting	
						T2 Type	T5 Type
PF-N		40 – 80 A	170 VDC	100 kA @170 VDC	✓	✓	✓

## Electric Vehicle AUTOMOTIVE GRADE

Series	Photo	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	✓	✓

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Bourns® products are available through an extensive network of manufacturer's representatives, agents and distributors. To obtain technical applications assistance, a quotation, or to place an order, contact a Bourns representative in your area.

Specifications subject to change without notice. Actual performance in specific customer applications may differ due to the influence of other variables. Customers should verify actual device performance in their specific applications.

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