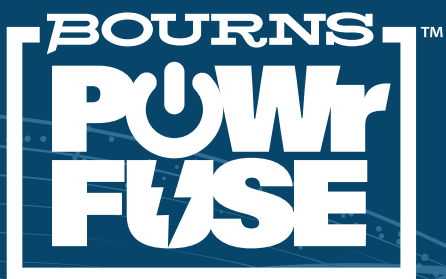


POW'rFuse™

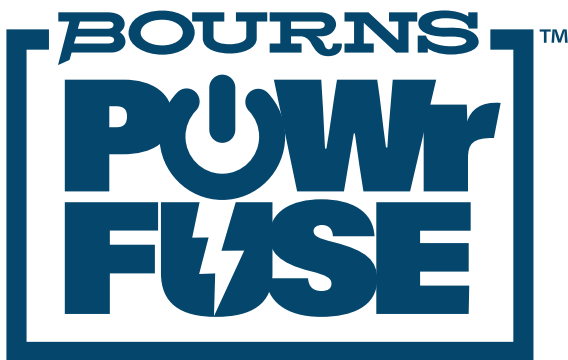
High-Power Fuses



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

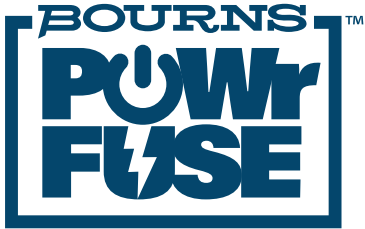
Rated Current _____

6 = 6 A

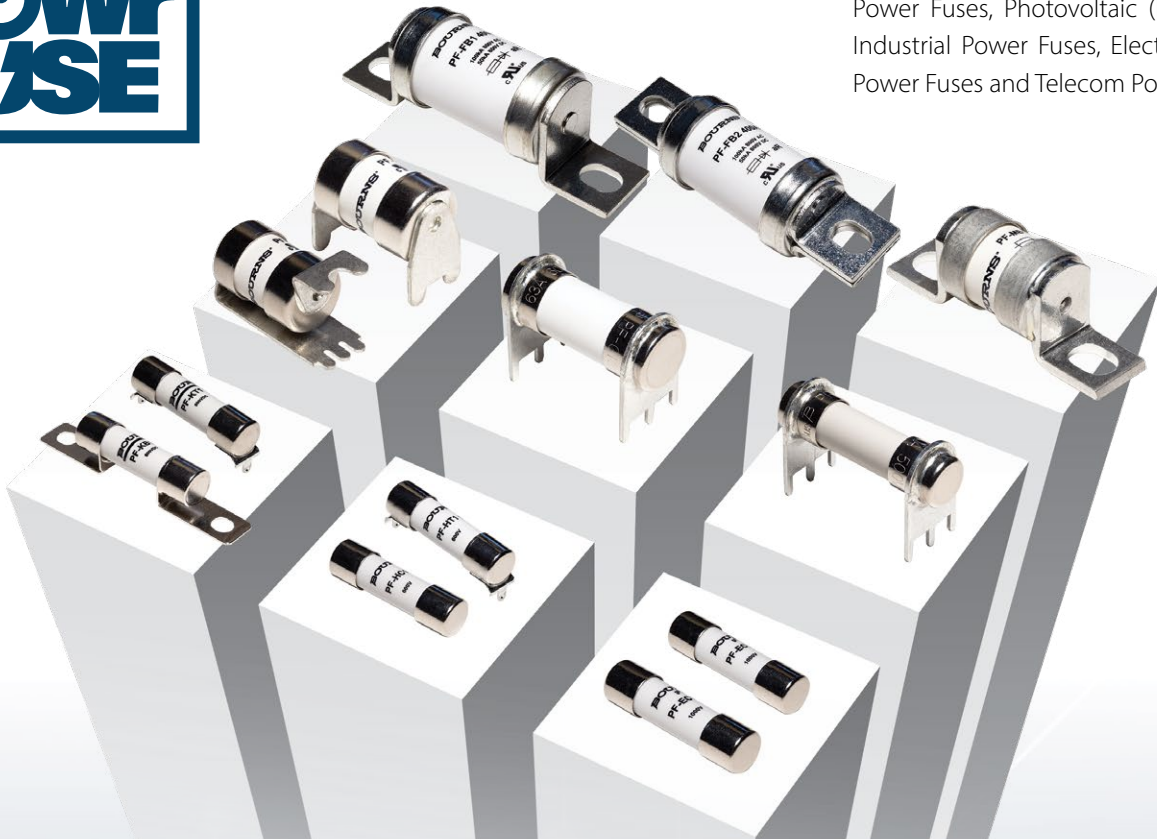
30 = 30 A

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

Bourns® POWrFuse™ High-Power Fuses



Semiconductor Power Fuse	PF-F Series	B	
	PF-M Series	B	
Photovoltaic Power Fuse	PF-E Series	C	T
	PF-H (gPV) Series	C	T
Industrial Power Fuse	PF-G Series		T
	PF-H (Ind) Series	C	T
	PF-J Series		T
Electric Vehicle Power Fuse	PF-K Series	B	T
Telecom Power Fuse	PF-N Series	B	T

Mounting Type
C Ferrule
B Bolt Mounting
T PCB Mounting







Photovoltaic (Class gPV)

Series	Photo	Rated Current	Rated Voltage	Interrupting Rating	cUL [®] US LISTED		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	cUL [®] 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				✓
PF-G		63 A	600 VAC 125 VDC	1500 A @ 600 VAC 2000 A @ 250 VAC 500 A @ 125 VDC				✓
		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		✓	✓	

Telecom

Series	Photo	Rated Current	Rated Voltage	Interrupting Rating	cUL [®] 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	✓	✓

Worldwide Sales/Representative Offices



Country	Phone	Email
Americas:	+1-951-781-5500	americus@bourns.com
Brazil:	+55 11 5505 0601	americus@bourns.com
China:	+86 21 64821250	asiacus@bourns.com
Europe, Middle East, Africa:	+36 88 885 877	eurocus@bourns.com
Japan:	+81 49 269 3204	asiacus@bourns.com
Korea:	+82 70 4036 7730	asiacus@bourns.com
Singapore:	+65 6348 7227	asiacus@bourns.com
Taiwan:	+886 2 25624117	asiacus@bourns.com
Other Asia-Pacific Countries:	+886 2 25624117	asiacus@bourns.com

Technical Assistance

Region	Phone	Email
Asia-Pacific:	+886 2 25624117	techweb@bourns.com
Europe, Middle East, Africa:	+36 88 885 877	eurotech@bourns.com
Americas:	+1-951-781-5500	techweb@bourns.com



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.

www.bourns.com

COPYRIGHT© 2022, BOURNS, INC. • MIMEO • 08/22 • e/PF2214
"Bourns" is a registered trademark of Bourns, Inc. in the U.S. and other countries.
"POWwFuse" is a trademark of Bourns, Inc.