

Superior Protection for Solar Power Applications

New Cooper Bussmann® PV Fuse-Links Protects Photovoltaic Strings

The demand for alternative energy has led to another innovation from the industry leader in circuit protection. The development of sophisticated solar panel systems has accelerated the demand for high performance fuse-links. The short-circuit condition associated with solar panels does not allow for sufficient current to open a standard fuse-link in a way that effectively isolates faulted PV strings. The new Cooper Bussmann® PV fuse-links provides full range of protection where traditional protection cannot.

Low Level Fault Protection

- PV Fuse range can clear faults as low as $1.3 \times I_{(fuse\ rating)}$ at 1000Vdc. PV fuse line is designed specifically for 4", 5" and 6" Solar Cell based panels

Superior Cycling Withstand

- PV Fuse line tested in coordination with cycling conditions associated to Solar System operations and environmental influences

1000Vdc Capacity

- PV Fuse line designed with a maximum operating voltage of 1000Vdc. The operating voltage is based on typical Solar Systems with L/R of 1mS and below.

Globally Accepted 10x38mm Dimension

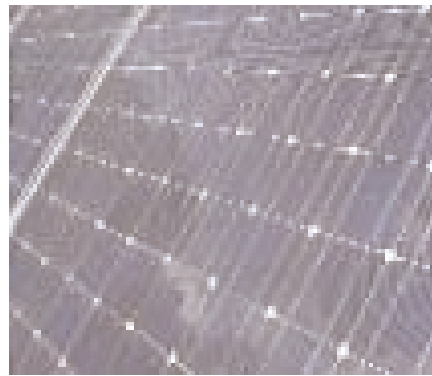
- PV Fuse line of 8A, 10A, 12A & 15A all available with standard ferrule and versatile PC mount options



Specifications

PV fuse-links

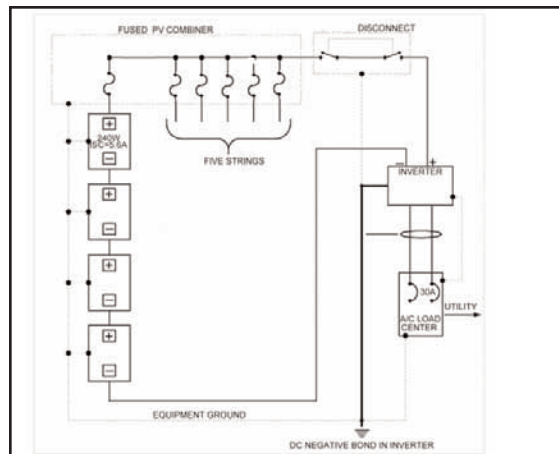
Rated voltage:	1000Vdc
Amps:	8A, 10A, 12A & 15A
Rated breaking capacity:	33kA dc
Min Interrupting Rating:	1.3x I _n
Min Interrupting Rating:	4", 5" and 6" Solar Cells
Time Constant (L/R):	under 1 ms



Technical Ratings

Part Number	Current Rating	Energy Integrals (A2s)		Power Loss (watts)	
		Pre-Arcing	Total at 1000V	0.8 In	In
PV-8A10F	8A	3	32	0.5	2.0
PV-10A10F	10A	7	50	0.6	2.1
PV-12A10F	12A	10	100	1.3	2.6
PV-15A10F	15A	20	200	1.8	3.0

Typical wiring diagram of a solar panel system



Outlines

