

# Superior Protection for Solar Power Applications

# New Cooper Bussmann® PV Fuse Protects Photovoltaic Panels up to 1000Vdc

The demand for alternative energy has led to another innovation from Cooper Bussmann, the industry leader in circuit protection. Developing sophisticated solar panel systems have accelerated the demand for high performance fuses. The short-circuit conditions associated with solar panels do not allow for sufficient current to open a standard fuse in a way that effectively isolates faulted photovoltaic (PV) strings. The new Cooper Bussmann® PV Fuse line provides a full range of protection that traditional fuses cannot.

#### Low Level Fault Protection

 PV Fuses can clear faults as low as 1.3 x I(fuse rating) @ 1000Vdc. They are designed specifically for 4", 5" and 6" solar cell based panels.

#### **Superior Cycling Withstand**

 PV Fuses are tested in coordination with cycling conditions associated with solar panel system operation and environmental influences.

#### 1000Vdc Capacity

 PV Fuses are designed with a maximum 1000Vdc operating voltage based on typical solar panel systems with L/R of 1ms and below.

#### Globally Accepted 10x38mm Dimension

 All PV Fuse amp ratings are available with standard ferrule, bolt and versatile PCB mount options.



### **Specifications**

#### **Ratings**

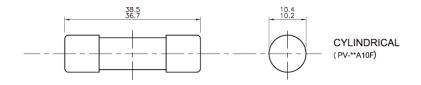
PV Fuse Coordination with: 4", 5", & 6" solar cells

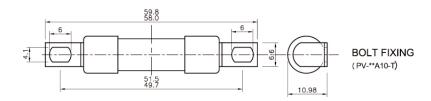
Time Constant (L/R): Under 1ms

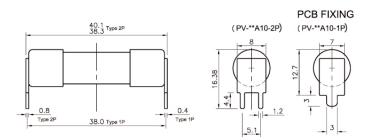
## **Technical Ratings**

Part Number	Current Rating (Amps)	Energy Integrals (A²s/I²t) Pre- Total @		Power Loss (Watts)	
		Arcing	1000Vdc	0.8I <sub>n</sub>	In
PV-8A10F	8	3	32	0.5	2.0
PV-10A10F	10	7	50	0.6	2.1
PV-12A10F	12	10	100	1.3	2.6
PV-15A10F	15	20	200	1.8	3.0

#### **Dimensions - mm**

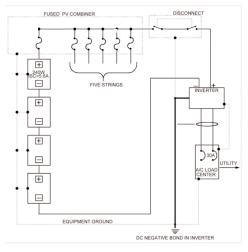








PV Fuses are specifically designed to work in solar panel systems using 4", 5" and 6" cells.



Typical solar panel wiring diagram.



Ferrule versions of the PV Fuse easily mount in conventional BM6031 fuse blocks.

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