

Photovoltaic Fuse Links for Solar Panel Applications

String Protection Fuse Links 1A to 20A 1000Vdc

PV Series



Description: A range of fuse links in a 10x38mm package specifically designed for the protection and isolation of photovoltaic strings. The fuse links are capable of interrupting low overcurrents associated with faulted PV (reverse current, multi-array fault) string arrays.

Catalogue Symbol: PV-(amp rating)A10F
PV-(amp rating)A10-T
PV-(amp rating)A10-1P
PV-(amp rating)A10-2P

Class of Operation: gPV and UL PV fuse links

Fuse Holders: PCB Clip: 1A3400-09
Modular fuse holder:
CHM1D-PV-IEC
CHPV1 (1-pole non-indicating)
CHPV1I (1-pole neon indicating)

Standards/Approvals: IEC 60269-6, UL 2579,
RoHS compliant,
UL Listed (1-15A) E335324
Pending: CCC

Packaging: MOQ: 10
Packaging 100% recyclable

Technical Data:

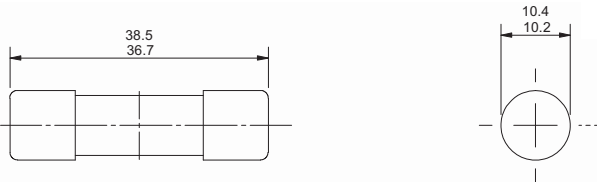
| | | |
|--------------------------|---------------------|---------------|
| Rated Voltage: | 1000Vdc | |
| Amps: | 1-6A, 8-15A and 20A | |
| Rated Breaking Capacity: | UL | IEC |
| | 1-6A | 10kAdc 40kAdc |
| | 8-15A | 10kAdc 33kAdc |
| 20A | N/A 10kAdc | |

Min Interrupting Rating: $1.3 \times I_n$

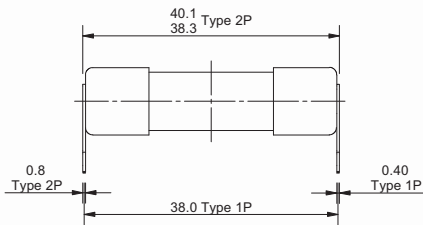
PV Fuse Coordination w/: Thin film cells and 4", 5" and 6" crystalline silicon cells.

Time Constant: 1-3ms

Dimensions - mm

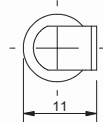
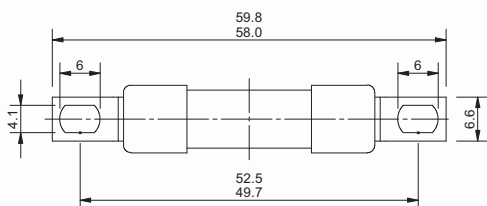
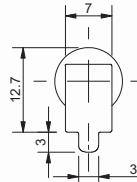
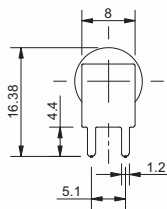


CYLINDRICAL
(PV-**A10F)



(PV-**A10-2P)

PCB FIXING
(PV-**A10-1P)



BOLT FIXING
(PV-**A10-T)



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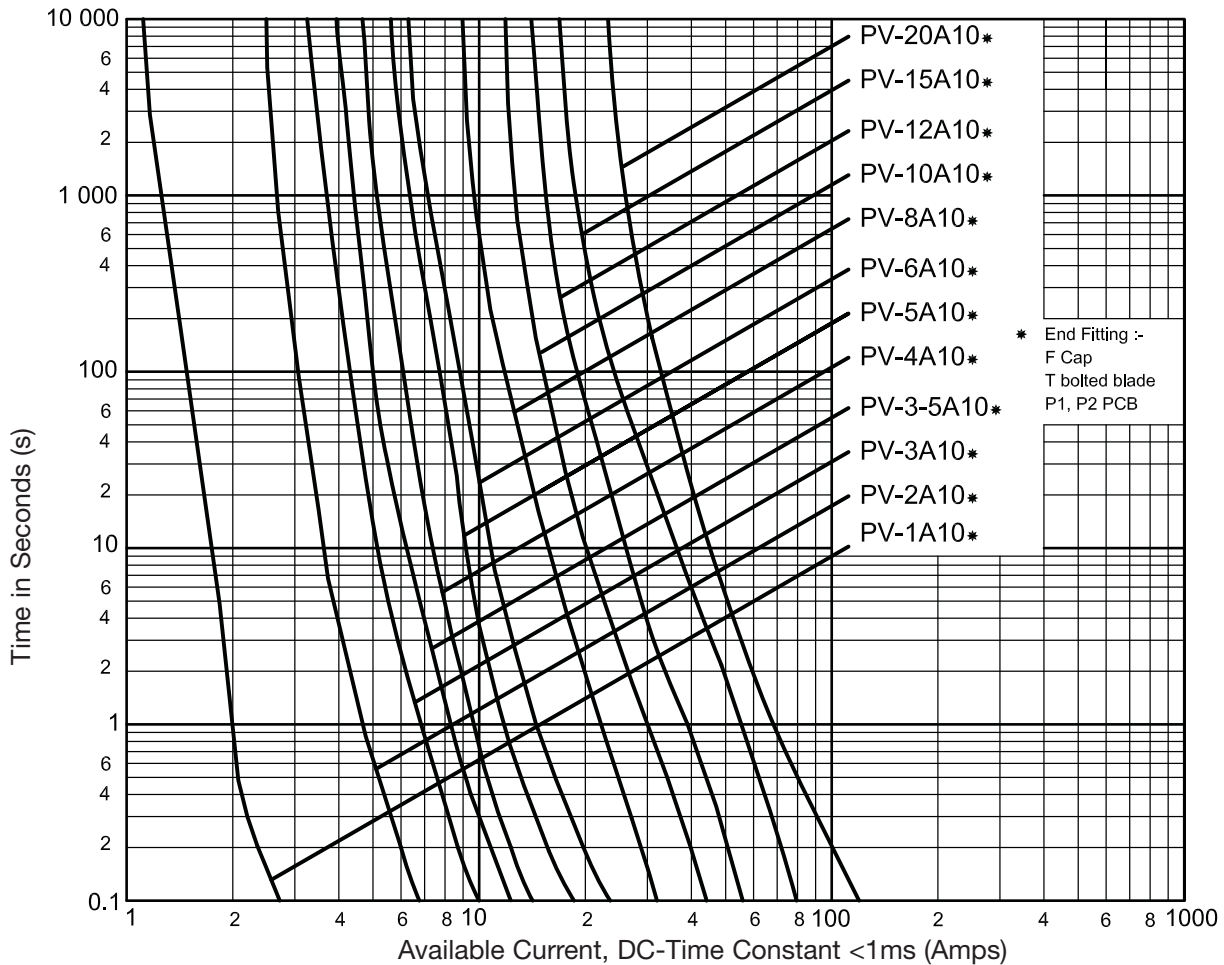
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Technical Data

| Part Number | Current Rating (Amps) | Energy Integrals I^2t (A ² s) | | Watts Loss | |
|-------------|-----------------------|--|----------------|------------|-------|
| | | Pre-Arcing | Total at 1000V | 0.8 I_n | I_n |
| PV-1A10F | 1 | 0.15 | 0.4 | 0.8 | 1.5 |
| PV-2A10F | 2 | 1.2 | 3.4 | 0.6 | 1.0 |
| PV-3A10F | 3 | 4 | 11 | 0.8 | 1.3 |
| PV-3-5A10F | 3.5 | 6.6 | 18 | 0.9 | 1.4 |
| PV-4A10F | 4 | 9.5 | 26 | 1.0 | 1.5 |
| PV-5A10F | 5 | 19 | 50 | 1.0 | 1.6 |
| PV-6A10F | 6 | 30 | 90 | 1.1 | 1.8 |
| PV-8A10F | 8 | 3 | 32 | 1.2 | 2.1 |
| PV-10A10F | 10 | 7 | 70 | 1.2 | 2.3 |
| PV-12A10F | 12 | 12 | 120 | 1.5 | 2.7 |
| PV-15A10F | 15 | 22 | 220 | 1.7 | 2.9 |
| PV-20A10F | 20 | 34 | 350 | 2.1 | 3.6 |

Time-Current Characteristics

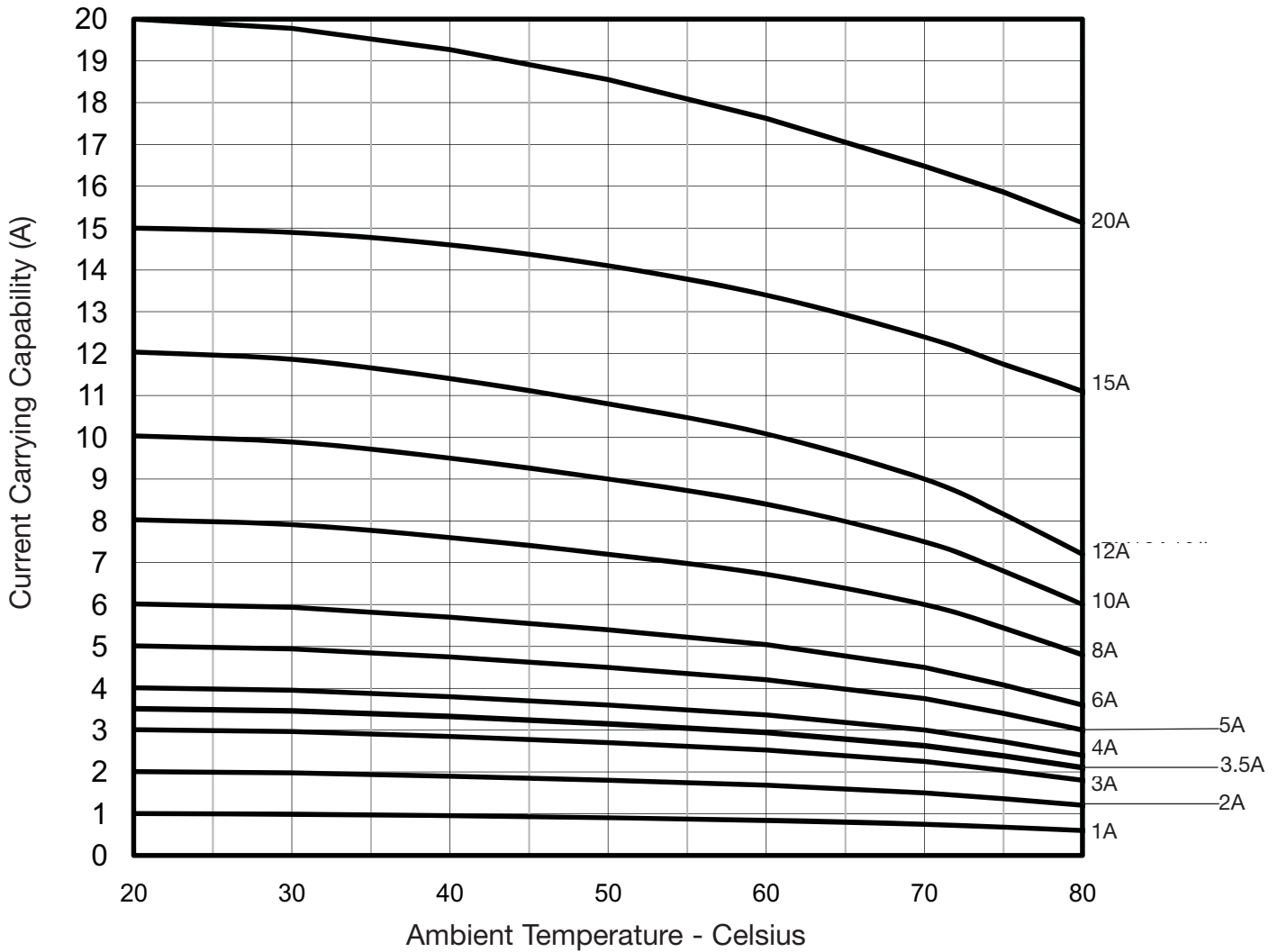


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Temperature Derating



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