

10x38mm Photovoltaic Fuse Links for Solar Panel Applications

1A to 20A, 1000Vdc Solar PV Series

RoHS



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 Size: 10x38mm

Fuse Holders: PCB Clip: 1A3400-09
DIN-Rail modular fuse holders:
- CHPV1U (1-pole non-indicating)
- CHPV1IU (1-pole neon indicating)

Standards/Approvals:

IEC 60269-6, UL 2579 (File number E335324), CSA, CCC (1-15A), RoHS compliant.

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.

Packaging: MOQ: 10
Packaging 100% recyclable

Technical Data:

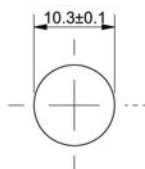
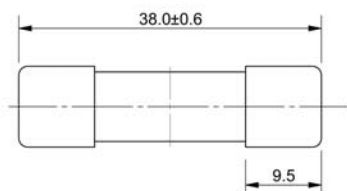
Rated Voltage: 1000Vdc
Rated Current: 1-6A, 8-15A and 20A
Rated Breaking Capacity: 50kA (IEC and UL)

Min Interrupting Rating: $1.3 \times I_n$

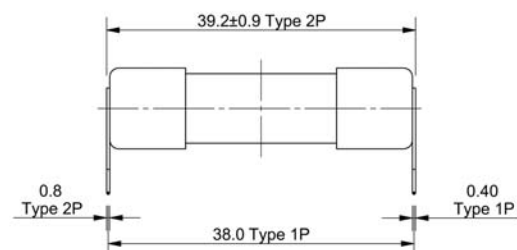
PV Fuse Coordination w/: Thin film cells and 4", 5" and 6" crystalline silicon cells.

Time Constant: 1-3ms

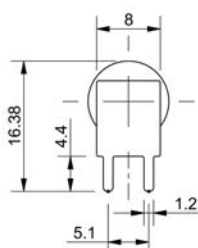
Dimensions - mm



CYLINDRICAL
PV-(amp rating)A10F

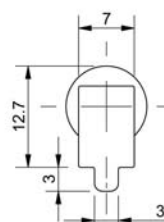


PV-(amp rating)A10-2P

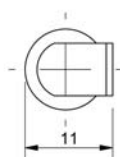
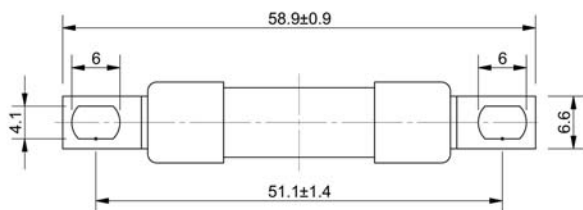
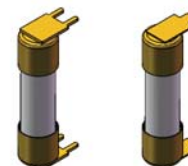


2P

PCB FIXING
PV-(amp rating)A10-1P



1P



BOLT FIXING
PV-(amp rating)A10-T



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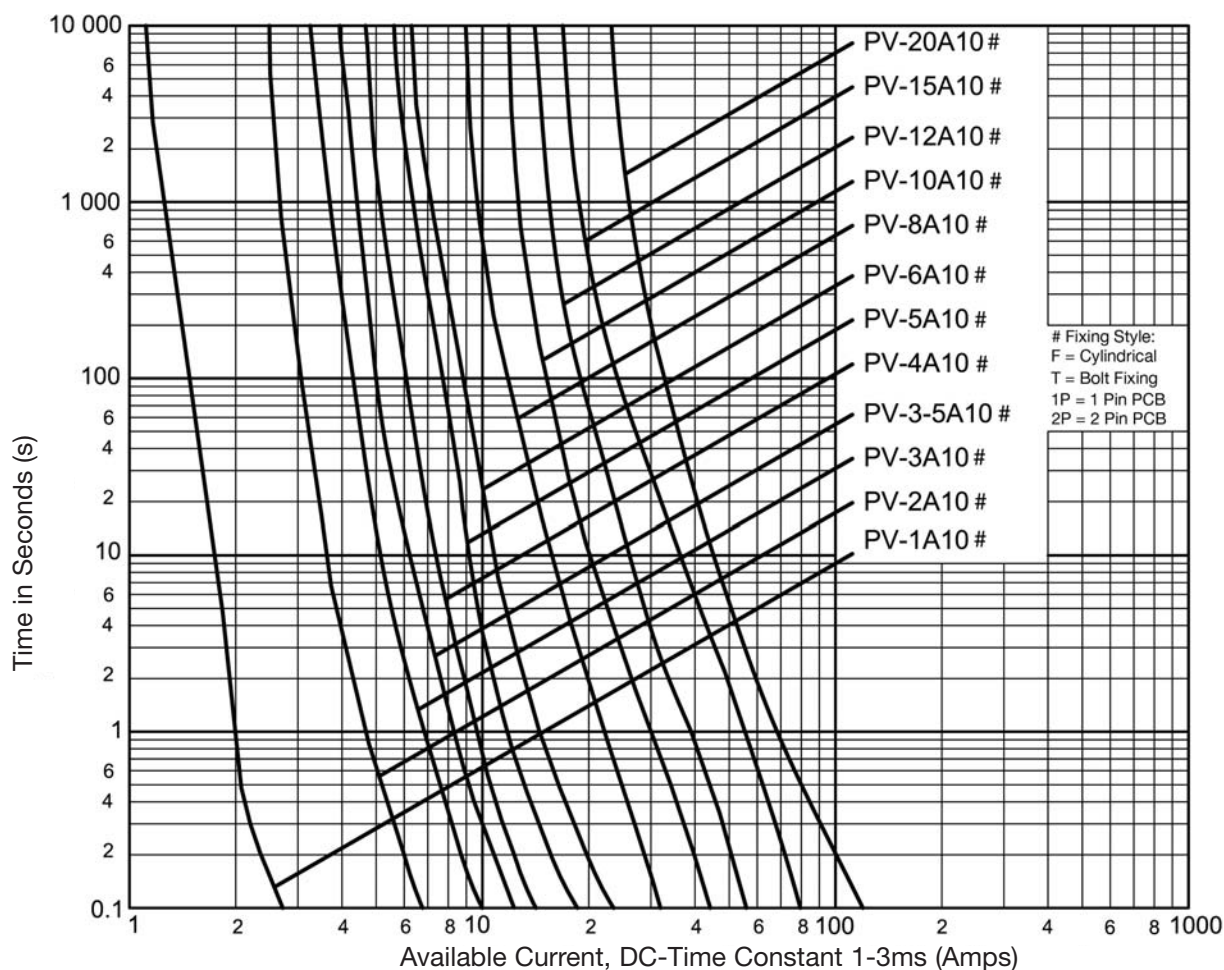
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Technical Data

Catalogue Numbers				Rated Current (Amps)	Rated Voltage (Vdc)	I ² t (A ² s)		Watts Loss (W)	
Cylindrical	Bolt Fixing	PCB Fixing Single Pin	PCB Fixing Double Pin			Pre-Arcing	Total at 1000V	0.8 I _n	I _n
PV-1A10F	PV-1A10-T	PV-1A10-1P	PV-1A10-2P	1	1000	0.15	0.4	0.8	1.5
PV-2A10F	PV-2A10-T	PV-2A10-1P	PV-2A10-2P	2		1.2	3.4	0.6	1.0
PV-3A10F	PV-3A10-T	PV-3A10-1P	PV-3A10-2P	3		4	11	0.8	1.3
PV-3-5A10F	PV-3-5A10-T	PV-3-5A10-1P	PV-3-5A10-2P	3.5		6.6	18	0.9	1.4
PV-4A10F	PV-4A10-T	PV-4A10-1P	PV-4A10-2P	4		9.5	26	1.0	1.5
PV-5A10F	PV-5A10-T	PV-5A10-1P	PV-5A10-2P	5		19	50	1.0	1.6
PV-6A10F	PV-6A10-T	PV-6A10-1P	PV-6A10-2P	6		30	90	1.1	1.8
PV-8A10F	PV-8A10-T	PV-8A10-1P	PV-8A10-2P	8		3	32	1.2	2.1
PV-10A10F	PV-10A10-T	PV-10A10-1P	PV-10A10-2P	10		7	70	1.2	2.3
PV-12A10F	PV-12A10-T	PV-12A10-1P	PV-12A10-2P	12		12	120	1.5	2.7
PV-15A10F	PV-15A10-T	PV-15A10-1P	PV-15A10-2P	15		22	220	1.7	2.9
PV-20A10F	PV-20A10-T	PV-20A10-1P	PV-20A10-2P	20		34	350	2.1	3.6

Time-Current Characteristics

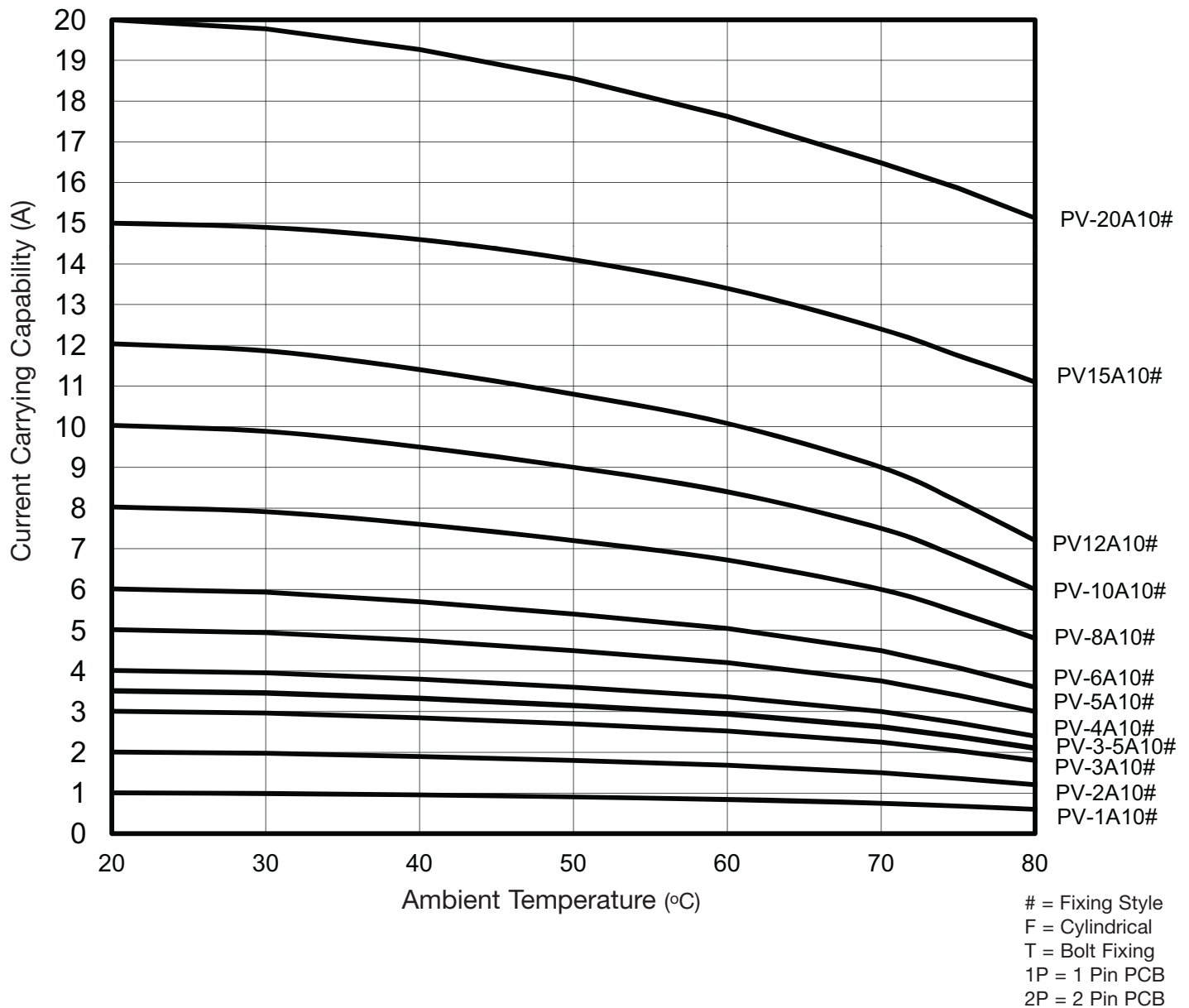


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Temperature Derating



No additional derating is required for PV fuse links installed in ganged modular fuse holders without spacing between units, provided that the rating used is $>1.56 \times I_{sc}$.

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