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## Solar fuses

10x38mm photovoltaic fuses

### 10x38mm fuses — 1000Vdc, 1-30A



RoHS

#### Description:

A range 10x38mm, 1000Vdc PV fuses for the protection and isolation of photovoltaic strings. The fuses are specifically designed for use in PV systems with extreme ambient temperature, high cycling and low fault current conditions (reverse current, multi-array fault) string arrays. Available with four mounting styles for application flexibility.

#### Basic fuse size:

- 10x38mm

#### Catalog symbols:

- 1-20A\* — PV-(amp)A10F (cylindrical)  
 — PV-(amp)A10-T (bolt mounting)  
 — PV-(amp)A10-1P (single PCB tab)  
 — PV-(amp)A10-2P (dual PCB tab)  
 — PV-(amp)10F-CT (in-line, crimp terminals)  
 25-30A\*\* — PV10M-(amp) (cylindrical)  
 — PV10M-(amp)-CT (in-line, crimp terminals)

\*Ceramic tube construction. \*\*Melamine tube construction.

#### Time constant:

- 1-3ms

#### PV Fuse coordination:

With thin film cells and 4", 5" and 6" crystalline silicon cells

#### Agency information:

- UL Listed to 2579\*, Guide JFGA, File E335324
- IEC 60269-6 (gPV)
- CSA File 53787, Class 1422-30 (1-15A), 20-30A Pending
- CCC (1-20A) (25-30A pending)
- RoHS Compliant

\* Except crimp terminal version that is UL Recognized to UL 2579, Guide JFGA2, File E335324.

#### Features and benefits:

- Meets UL and IEC photovoltaic standards for global acceptance
- Low watts loss performance for energy efficiency
- Low temperature rise performance for more precise sizing
- In-line crimp terminal version is easy to apply in wire harness construction

#### Typical applications:

- Combiner boxes • Inverters • PV wire harnesses

#### Recommended fuse blocks, holders and fuseclips:

Part number	Description	Data Sheet #
BPVM_	1000Vdc modular fuse block with optional cover	10265
CHPV_	1- and 2-pole modular fuse holders with optional open fuse indication	Lit # 3185
1A3400-09	PCB fuseclip	2131
HPV-DV-_A	In-line fuse holder assembly	2157

#### Catalog numbers (amp)/electrical characteristics:

Cylindrical ferrule	Bolt fixing	PCB fixing single pin	PCB fixing double pin	In-line with crimp terminal	Rated amps	Rated volts Vdc	Interrupting rating	I <sup>2</sup> t (A <sup>2</sup> s)		Watts loss	
								Pre-arcing	Total @ rated volts	0.8I <sub>n</sub>	I <sub>n</sub>
PV-1A10F	PV-1A10-T	PV-1A10-1P	PV-1A10-2P	PV-1A10F-CT	1	1000	50kA	0.15	0.4	0.8	1.5
PV-2A10F	PV-2A10-T	PV-2A10-1P	PV-2A10-2P	PV-2A10F-CT	2	1000	50kA	1.2	3.4	0.6	1.0
PV-3A10F	PV-3A10-T	PV-3A10-1P	PV-3A10-2P	PV-3A10F-CT	3	1000	50kA	4	11	0.8	1.3
PV-3-5A10F	PV-3-5A10-T	PV-3-5A10-1P	PV-3-5A10-2P	PV-3-5A10F-CT	3.5	1000	50kA	6.6	18	0.9	1.4
PV-4A10F	PV-4A10-T	PV-4A10-1P	PV-4A10-2P	PV-4A10F-CT	4	1000	50kA	9.5	26	1.0	1.5
PV-5A10F	PV-5A10-T	PV-5A10-1P	PV-5A10-2P	PV-5A10F-CT	5	1000	50kA	19	50	1.0	1.6
PV-6A10F	PV-6A10-T	PV-6A10-1P	PV-6A10-2P	PV-6A10F-CT	6	1000	50kA	30	90	1.1	1.8
PV-8A10F	PV-8A10-T	PV-8A10-1P	PV-8A10-2P	PV-8A10F-CT	8	1000	50kA	3	32	1.2	2.1
PV-10A10F	PV-10A10-T	PV-10A10-1P	PV-10A10-2P	PV-10A10F-CT	10	1000	50kA	7	70	1.2	2.3
PV-12A10F	PV-12A10-T	PV-12A10-1P	PV-12A10-2P	PV-12A10F-CT	12	1000	50kA	12	120	1.5	2.7
PV-15A10F	PV-15A10-T	PV-15A10-1P	PV-15A10-2P	PV-15A10F-CT	15	1000	50kA	22	220	1.7	2.9
PV-20A10F	PV-20A10-T	PV-20A10-1P	PV-20A10-2P	PV-20A10F-CT	20	1000	50kA	34	350	2.1	3.6
PV10M-25	—	—	—	—	25	1000	20kA	325	1860*	1.7	2.9
PV10M-30	—	—	—	—	30	1000	20kA	536	3360*	1.7	3.3

\*Total I<sup>2</sup>t @ 20kA. Consult factory for availability.

Data Sheet: 10121