

PV Fuseholders and Blocks

UltraSafe™ for string combiner box applications

A Tool-free and Touch-safe Design Increases User Safety

Mersen's line of UltraSafe fuseholders deliver the function, safety and level of circuit protection demanded by PV applications. Designed with enhanced materials and insulation properties providing the level of reliability and system longevity needed for high ambient conditions commonly seen at PV sites. The touch-safe design and tool-free fuse change-outs increase user safety. The unique spring terminal option is immune to vibration, corrosion and temperature making it the ideal choice for PV installation. Combine with Mersen's HelioProtection HP6M or HP10M fuses for industry leading PV circuit protection.



Catalog Numbers and Electrical Characteristics

For use with	Voltage (VDC)	Amperage (A)	Terminal Type	Visual Blown Fuse Indicator	Catalog Number	Reference Number
Midget (10x38mm)	1000	32 max	Screw	No	USM1HEL	L1028363
				Yes	USM1IHEL	M1028364
Midget (10x38mm)	1000	32 max	Spring*	No	USGM1HEL	P1022294
				Yes	USGM1IHEL	N1022293

Additional Specifications

Connector Type: Screw or CAGE CLAMP® spring

Suggested Screw Torque: 14.75 in-lbs

Wire Range : 14 to 6 AWG (2.5 to 16mm²) single conductor
: 14 to 10 AWG (2.5 to 5mm²) dual conductor

Wire Type: 60/75/90°C solid/stranded copper

Load Break Disconnect: No

Max Power Losses: 3W

Blown Fuse Indicator Operating Voltage: 350-1000VDC

Flammability: UL94V0

Recommended Fuse Usage: HP6M and HP10M

Approvals:

- UL Listed to 4248-18, File E347822
- CSA Component Acceptance, Class 6225-01
- IEC 60269-2-1 and 60947-3 Certified
- RoHS Compliant



*Mersen Spring Terminal Technology

Wire surrounded on all four sides

Wire retention spring reinforces high contact pressure



"S" bend provides defined contact area

Higher Reliability

- Immune to vibration, corrosion and temperature
- Maintenance-free, eliminates the need to re-torque
- Superior connection every time independent of operator skill

Increased Ease-of-Use

- No tools required for installation or maintenance

Lower Total System Cost

- Reduce installation time by 75%

Accessories – USBB series Comb Bus Bar (for use with screw type only)

Comb Bus Bar

Voltage (VDC)	Amperage (A)	Phase	Poles	Catalog Number	Cross Section	Pitch	Material
1000	100 (End Feed)	1	4	USBB1PH25K4	25mm ²	17.8mm	Copper
			6	USBB1PH25K6			
	200 (Center Feed)		8	USBB1PH25K8			
			12	USBB1PH25K12			

Power Feeder Terminal

Voltage (VDC)	Amperage (A)	Phase	Wire Range	Catalog Number
1000	115	1	10 - 1/0 AWG	USBBC1
			14 - 1 AWG	USBESB1

For additional information about UltraSafe photovoltaic fuseholders visit ep.mersen.com