

# HP15M

1500VDC Midget (10x85mm) Photovoltaic Fuses

## SPECIAL PURPOSE

## FOR STRING PROTECTION



Mersen's HP15M photovoltaic (PV) fuse series was engineered and designed specifically for the protection of photovoltaic systems. Its enhanced fuse construction makes it ideal for continuous temperature and current cycling withstand adding to system longevity. The 1500VDC rated HP15M, designed for low minimum breaking capacity capabilities of 1.35 times the fuse rated current value, allows for safe circuit interruption under typical low fault current conditions produced by PV arrays and meets the trend for increased voltage for higher efficiency. In addition to the standard ferrule terminal, parts are available Crimp Cap terminals for in-line fuse applications. The unique wire crimp terminal (CC option) permits solderless wire-to-fuse connection for overmold encapsulation of fuse and wiring. Protect your off-grid or grid tied PV system from unexpected ground faults and line faults using Mersen's Helio Protection fuse line.

### APPLICATIONS:

- All photovoltaic applications
- PV string/array level protection
- Combiner box applications
- In-line PV module protection
- Inverters
- Battery charge controllers

### RATINGS:

- **Volts:** 1500VDC
- **Amps:** 4A - 32A
- **SCCR:** 50kA

Photovoltaic Fuse

### FEATURES/BENEFITS:

- Low fault current interrupting capability
- Durable construction for enhanced system longevity
- Temperature cycle withstand capability
- Guaranteed operation at temperature extremes
- Globally accepted
- Recommended Fuse holder: US15M1HEL

### APPROVALS:

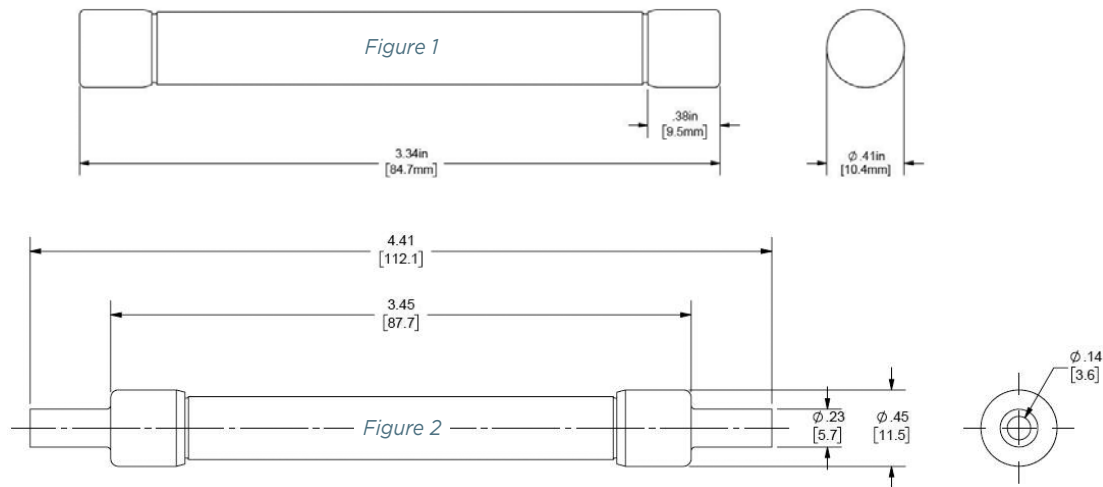
- UL Listed to Standard UL2579
- CSA Component Pending
- IEC 60269-6



CATALOG NUMBERS AND ELECTRICAL CHARACTERISTICS

Voltage [VDC]	Amperage [A]	Catalog Number	Reference Number	Watts Loss @ 70% x I <sub>n</sub> [W]	Watts Loss @ 80% x I <sub>n</sub> [W]	Watts Loss @ 100% x I <sub>n</sub> [W]	Interrupting Rating [kA]	Size [mm]
1500	4	HP15M4	F1059569	0.79	1.09	1.85	50	10x85 (Figure 1)
	5	HP15M5	X1055053	0.84	1.16	1.97		
	6	HP15M6	Q1053667	0.97	1.37	2.42		
	7	HP15M7	R1053668	0.98	1.38	2.43		
	8	HP15M8	S1053669	1.04	1.50	2.60		
	10	HP15M10	T1053670	1.23	1.77	3.09		
	12	HP15M12	V1053671	1.15	1.70	2.89		
	15	HP15M15	W1053672	1.39	1.91	3.48		
	20	HP15M20	X1053673	1.71	2.47	4.28		
	25	HP15M25	Y1053674	2.13	3.08	5.35		
	30	HP15M30	Z1053675	2.56	3.61	6.40		
	32	HP15M32	G1059570	2.73	3.85	6.82		
	4	HP15M4CC	A1061542	0.80	1.04	1.69		10 x 112 (Figure 2)
	5	HP15M5CC	B1061543	0.92	1.27	2.16		
	6	HP15M6CC	D1061545	1.06	1.50	2.66		
	7	HP15M7CC	E1061546	1.06	1.50	2.67		
	8	HP15M8CC	F1061547	1.14	1.65	2.86		
	10	HP15M10CC	G1061548	1.35	1.94	3.34		
	12	HP15M12CC	H1061549	1.26	1.87	3.18		
	15	HP15M15CC	J1061550	1.53	2.10	3.83		
	20	HP15M20CC	K1061551	1.88	2.71	4.71		
	25	HP15M25CC	L1061552	2.34	3.39	5.88		
	30	HP15M30CC	M1061553	2.81	3.97	7.04		
	32	HP15M32CC	N1061554	3.00	4.23	7.51		

DIMENSIONS



CC terminal (Fig. 2): Recommended crimping tool: T & B Sta-Kon ERG4002 #10 -12 AWG (6-4 mm<sup>2</sup>)