HP15MxxR

1500VDC Midget (10x85mm) Photovoltaic Fuses

SPECIAL PURPOSE

FOR STRING PROTECTION



Mersen's GEN2 of the HP15M photovoltaic (PV) fuse series is designed specifically to meet the severe temperature and current cycling of a PV system. Subjected to stringent cycle testing, the GEN2 provides enhanced reliability. These 1500VDC rated fuses are designed for low minimum breaking capacity capabilities of 1.35 times the fuse rated current value, which allows for safe circuit interruption under typical low fault current conditions. In addition to the standard ferrule terminal, parts are also available with 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 line faults using Mersen's HelioProtection® fuse line.

APPLICATIONS:

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

Disclaimer: Similar to thermal devices, the performance of these fuses is influenced by ambient temperature. Consequently, the current capability of the PV Fuses must be adjusted in accordance with their Temperature Derating Curve. Click to download Ampere Rating vs. Ambient Temperature (Temp Derating) curve.

RATINGS:

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

Photovoltaic Fuse

Low fault current interrupting capability

FEATURES/BENEFITS:

- Durable construction for enhanced system longevity
- Temperature and load cycling capability
- Certified to global standards
- Recommended fuse holders: HP15FHM32A, HP15FHM32B, US15M1HEL

APPROVALS:

- **UL Listed to Standard** UL 248-19
- CSA Component Certified C22.2
- IEC 60269-6







CATALOG NUMBERS AND ELECTRICAL CHARACTERISTICS

Voltage (VDC)	Amperage (A)	Catalog Number			Watts Loss	Watts Loss	Watts Loss	Interrupting	Ciro (mm)
		Ferrule	Crimp Cap 10-12 AWG	Crimp Cap 8 AWG	@ 70% x I _n (W)	@ 80% x l	@ 100% x l _n (W)	Rating (kA)	Size (mm)
1500	4	HP15M4R*	HP15M4RCC**	HP15M4RCC8**	0.72	1.01	1.78	- 50	Ferrule: 10x85 (Figure 1) Crimp Cap 10.12 AWG: 10 x 112 (Figure 2) Crimp Cap 8 AWG: 10 x 112 (Figure 3)
	5	HP15M5R*	HP15M5RCC**	HP15M5RCC8**	0.83	1.14	1.97		
	6	HP15M6R*	HP15M6RCC**	HP15M6RCC8**	0.96	1.36	2.44		
	7	HP15M7R*	HP15M7RCC**	HP15M7RCC8**	0.98	1.38	2.46		
	8	HP15M8R*	HP15M8RCC**	HP15M8RCC8**	1.03	1.50	2.60		
	10	HP15M10R*	HP15M10RCC**	HP15M10RCC8**	1.24	1.79	3.10		
	12	HP15M12R*	HP15M12RCC**	HP15M12RCC8**	1.30	1.79	3.08		
	15	HP15M15R*	HP15M15RCC**	HP15M15RCC8**	1.30	1.76	2.95		
	20	HP15M20R*	HP15M2ORCC**	HP15M2ORCC8**	1.77	2.36	4.27		
	25	HP15M25R*	HP15M25RCC**	HP15M25RCC8**	2.21	3.07	5.54		
	30	HP15M30R*	HP15M30RCC**	HP15M30RCC8**	2.63	3.62	6.42		
	32	HP15M32R*	HP15M32RCC**	HP15M32RCC8**	3.18	4.22	7.14		

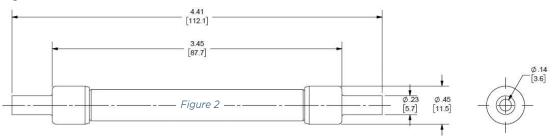
Catalog Number

- with "CC" suffix = Product with Crimp Cap terminals for in-line fuse applications 10-12 AWG.
- with "CC8" suffix = Product with Crimp Cap terminals for in-line fuse applications 8 AWG.
- * Available in 88-piece bulk pack (add -B suffix to Catalog Number). Order quantity of one (1) -B suffix Catalog Number yields 88 fuses.
- ** Available in 50-piece bulk pack (add -B suffix to Catalog Number). Order quantity of one (1) -B suffix Catalog Number yields 50 fuses.

DIMENSIONS

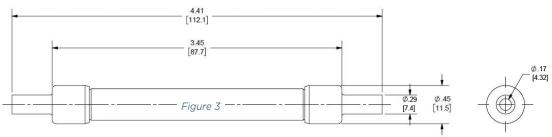






CC terminal (Fig. 2): Recommended crimping tool: T & B Sta-Kon ERG4002 #10 -12 AWG (5.26 - 3.31 mm²)





CC terminal (Fig. 3): Recommended crimping tool: T & B Sta-Kon ERG4002 #8 AWG (8.36 mm²)

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Mersen:

HP15M32R HP15M25RCC-B HP15M6RCC-B HP15M32R-B HP15M4RCC HP15M8RCC8 HP15M15R
HP15M20R-B HP15M25RCC HP15M7RCC HP15M12RCC HP15M32RCC8-B HP15M6R-B HP15M15RCC8
HP15M10RCC-B HP15M20RCC8-B HP15M20RCC-B HP15M32RCC-B HP15M6RCC8-B HP15M5RCC
HP15M7RCC8 HP15M15RCC8-B HP15M30R-B HP15M30RCC8 HP15M5R HP15M7RCC-B HP15M8R-B
HP15M20R HP15M20RCC HP15M25RCC8 HP15M10RCC8-B HP15M12RCC8 HP15M12RCC-B HP15M30RCC8-B HP15M4R-B HP15M8RCC8-B HP15M10RCC8 HP15M12RCC8-B HP15M30RCC-B
HP15M4RC8-B HP15M7R HP15M8RCC-B HP15M15RCC-B HP15M12R HP15M12R-B HP15M25R
HP15M32RCC HP15M6RCC HP15M10R-B HP15M5RCC8-B HP15M6R HP15M7R-B HP15M10RCC
HP15M4RCC8-B HP15M8RCC HP15M15R-B HP15M30RCC HP15M4RCC-B HP15M5R-B
HP15M32RCC HP15M8RCC HP15M15R-B HP15M30R HP15M30RCC HP15M4RCC-B HP15M5R-B
HP15M7RCC8-B HP15M8R HP15M15RCC HP15M15RCC HP15M30RCC HP15M10R HP15M5R-B
HP15M32RCC8 HP15M8R HP15M15RCC HP15M20RCC8 HP15M5RCC-B HP15M10R HP15M5R-B
HP15M32RCC8 HP15M6RCC8