

# Dual HP10M

1000V DC Midget Photovoltaic Fuses

## SPECIAL PURPOSE

INDUSTRY'S FIRST EXTENDED RANGE IN-LINE STRING FUSE  
ENGINEERED TO PROTECT PHOTOVOLTAIC APPLICATIONS



Mersen's innovative dual HP10M photovoltaic (PV) fuse series was designed specifically for the protection of enhanced photovoltaic systems employing increased string current aggregation. Its precision resistance matched fuse construction ensures balanced load sharing, making it ideal for continuous temperature and current cycling withstand adding to system longevity. The 1000VDC rated HP10M, 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. The tin plated Crimp Cap (CC) wire-crimpable and solderable terminals accept #8 AWG stranded copper PV wire.

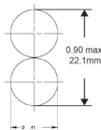
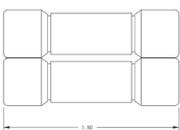
## CATALOG NUMBERS - AMPS

Catalog Number (Ferrule)	Catalog Number (Crimp Cap)	Rated Current In (Amps)	Power Dissipation at 0.7xin (Watts)	Power Dissipation at 0.8xin (Watts)	Power Dissipation at 1.0xin (Watts)	Package
HP10M36	HP10M36CC	36	1.9	2.6	4.5	Refer to notes
HP10M45	HP10M45CC	45	2.1	2.9	5.2	
HP10M60	HP10M60CC	60	3.8	5.3	8.0	

Notes: 1. HP10M(Amp): 2 piece standard pack; 88 piece bulk pack (-B suffix).  
2. HP10M(Amp)CC: 2 piece standard pack; 35 piece bulk pack (-B suffix).

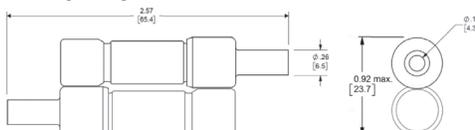
## DIMENSIONS

### Ferrule



### Crimp Cap<sup>1</sup>

<sup>1</sup> Recommended crimping tool: T & B # ERG2005 or equivalent.



## RATINGS:

- **Volts:** 1000VDC
- **Amps:** 36, 45, 60A
- **IR:** 50kA I.R. DC
- **MBC:** 1.35 x In
- Photovoltaic Fuse, gPV

SP

## FEATURES/BENEFITS:

- Low fault current interrupting capability
- Durable construction for enhanced system longevity
- Available in solderable ferrule, and solderable & crimpable wire terminals
- Temperature cycle withstand capability
- Guaranteed operation at temperature extremes
- Industry's first UL Listed extended range in-line fuse solution
- Globally accepted

## APPLICATIONS:

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

## APPROVALS:

- UL Listed to Standard UL-248-19
- CSA Component Certified C22.2
- IEC 60269-6 Approved (Self Certified)

