

# Special Purpose

## HelioProtection® Photovoltaic fuse-links

### HP10M 1000VDC 1 to 30A

Mersen HP10M 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 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. Protect your off-grid or grid tied PV system from unexpected ground faults and line faults using Mersen HelioProtection® fuse line.



#### Benefits

Industries first UL Listed Solution

Globally accepted

Low fault current interrupting capability

Temperature cycle withstand capability

Durable construction for enhanced system longevity

Guaranteed operation at temperature extremes (-30°C to +70°C)

#### Applications

All photovoltaic applications

Combiner box applications

PV string/array level protection

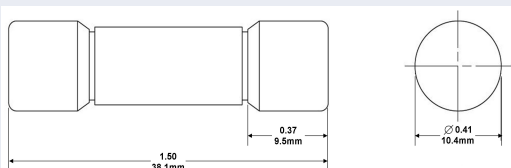
In-line PV module protection

Inverters

Battery charge controllers

Rated Voltage (V)	Nominal Current (A)	Class	Catalog Number	Reference Number
1000	1	gPV	HP10M1	B1018579
1000	2	gPV	HP10M2	C1018580
1000	3	gPV	HP10M3	D1018581
1000	4	gPV	HP10M4	E1018582
1000	5	gPV	HP10M5	F1018583
1000	6	gPV	HP10M6	G1018584
1000	7	gPV	HP10M7	H1018585
1000	8	gPV	HP10M8	J1018586
1000	10	gPV	HP10M10	L1018588
1000	12	gPV	HP10M12	M1018589
1000	15	gPV	HP10M15	N1018590
1000	20	gPV	HP10M20	P1018591
1000	25	gPV	HP10M25	D1023825
1000	30	gPV	HP10M30	E1023826

#### Dimensions inches (mm)



#### Ratings

1000VDC: 1 to 30A, L/R = 1ms

IR: 10kA I.R. DC

Minimum Breaking Capacity:  
1.35 x In

#### Approvals

CSA Component Certified C22.2

UL Listed to Standard UL2579  
File E333668

IEC 60269-6 Certified

RoHS Component



#### Related products

Fuse-holders UltraSafe™ US10

With indicator: US101HEL /

Without indicator: US101HEL

Packaging: 10 pieces

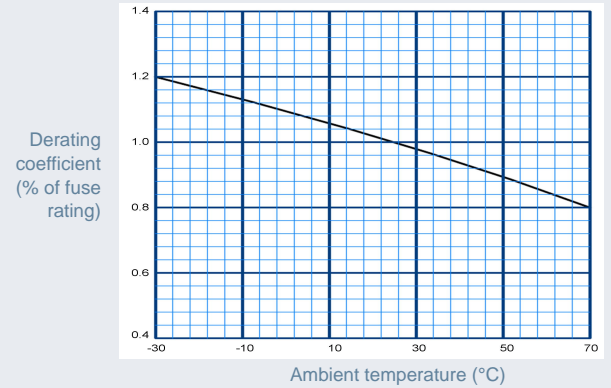
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Rated Voltage (V)	Nominal Current (A)	Watts Loss @ 100% In (W)	Watts Loss @ 80% In (W)	Watts Loss @ 70% In (W)
1000	1	0.32	0.2	0.14
1000	2	0.43	0.27	0.2
1000	3	1.4	0.9	0.63
1000	4	1.3	0.8	0.58
1000	5	1.4	0.9	0.63
1000	6	1.5	1.0	0.67
1000	7	1.5	1.1	0.68
1000	8	1.1	0.7	0.5
1000	10	1.5	0.9	0.69
1000	12	2.0	1.3	0.9
1000	15	3.0	1.9	1.3
1000	20	4.4	2.6	2.0
1000	25	2.9	1.7	1.2
1000	30	3.8	2.1	1.5

Ampere rating vs. Ambient temperature



Time current characteristics

