HP15P

1500VDC 20x65mm Photovoltaic Fuses

SPECIAL PURPOSE

FOR STRING PROTECTION

Mersen's range of 1500VDC photovoltaic (PV) fuse series is designed specifically to meet higher amperage demands of today's PV circuits. Mersen's 20x65mm form factor is designed to handle the harsh cyclical loads and thermal conditions of our customers' highest amperage applications. 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, fuses 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.

FEATURES/BENEFITS

- 10A to 65A for higher amperage applications
- Low fault current interrupting capability
- Durable construction for enhanced system longevity
- Temperature and load cycling capability
- Certified to global standards
- Recommended fuse holders: HP15FHP80W, HP15FHP80B

APPLICATIONS

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

APPROVALS/STANDARDS

- UL Listed to Standard UL 248-19
- CSA Component Certified C22.2
- IEC 60269-6 (no IEC on 65A)
- UKCA

Technical Data Overview	
Volts	1500VDC
Amps	10A-65A
Short-Circuit Current Rating (SCCR)	50kA

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CATALOG NUMBERS AND ELECTRICAL CHARACTERISTICS

Voltage (VDC)	Amperage (A)	Catalog Number	Interrupting Rating (kA)	80% Amp Rating (W)	100% Amp Rating (W)	Size (mm)	Wire Gauge
1500VDC	10	HP15P10	50kA	6.42	9.99	20x65mm	NA
	12	HP15P12		4.7	7.01		
	15	HP15P15		5.17	8.57		
	20	HP15P20		2.7	4.7		
	25	HP15P25		3.3	5.8		
	30	HP15P30		3.8	6.8		
	32	HP15P32		4.0	7.0		
	35	HP15P35		4.4	7.7		
	40	HP15P40		4.4	7.8		
	45	HP15P45		4.7	8.2		
	50	HP15P50		5.0	9.5		
	55	HP15P55		5.4	9.5		
	60	HP15P60		6.2	11.0		
	63	HP15P63		6.7	12.2		
	65	HP15P65		7.91	10.73		
1500VDC	10	HP15P10CC	50kA	6.42	9.99	Figure 2	10-12 AWG
	12	HP15P12CC		4.7	7.01		10-12 AWG
	15	HP15P15CC		5.17	8.57		10-12 AWG
	20	HP15P20CC		2.7	4.7		10-12 AWG
	25	HP15P25CC		3.3	5.8		10-12 AWG
	30	HP15P30CC		3.8	6.8		10-12 AWG
	32	HP15P32CC		4.0	7.0		10-12 AWG
	35	HP15P35CC		4.4	7.7		10-12 AWG
	40	HP15P40CC		4.4	7.8		6-8 AWG
	45	HP15P45CC		4.7	8.2		6-8 AWG
	50	HP15P50CC		5.0	9.5		6-8 AWG
	55	HP15P55CC		5.4	9.5		6-8 AWG
	60	HP15P60CC		6.2	11.0		6-8 AWG
	63	HP15P63CC		6.7	12.2		6-8 AWG
	65	HP15P65CC		7.91	10.73		6-8 AWG

Catalog Number with CC suffix = Product with Crimp Cap terminals for in-line fuse applications.
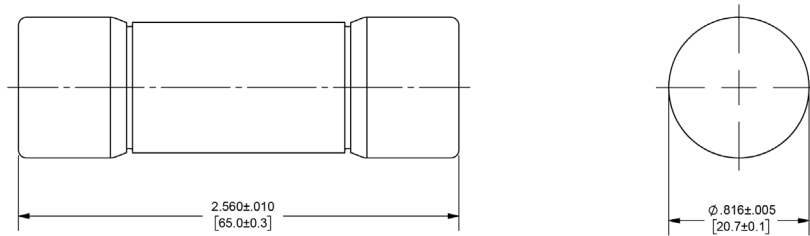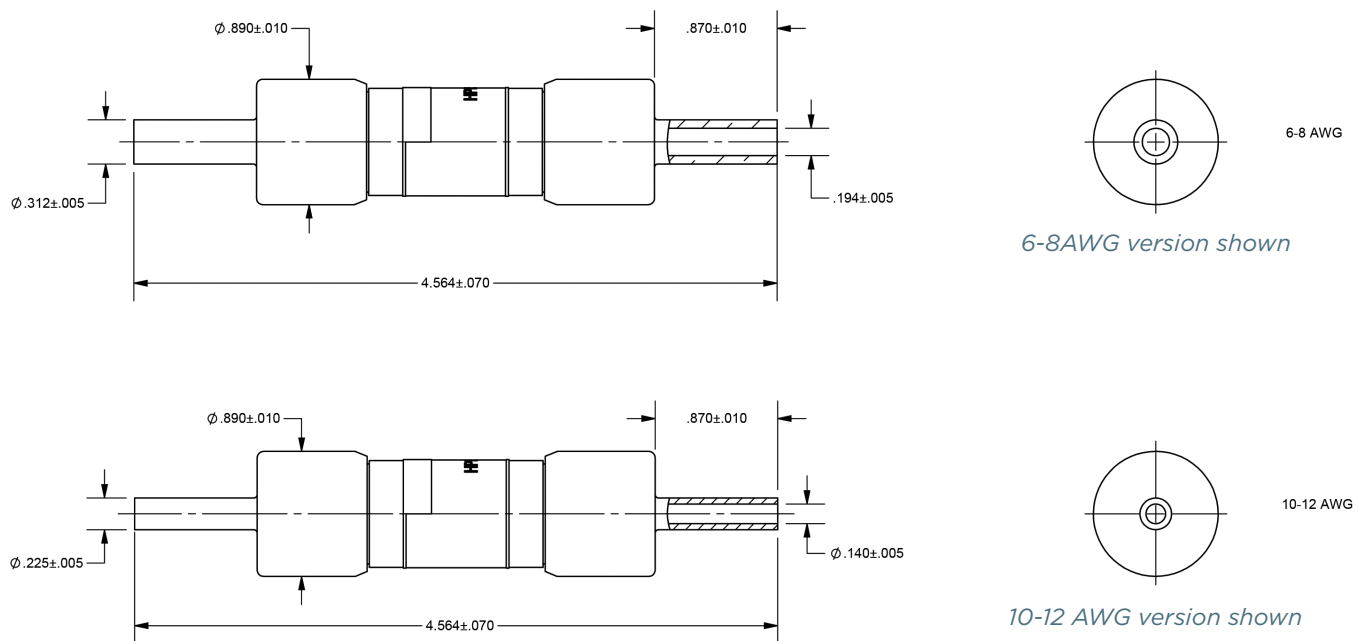
DIMENSIONS

Figure 1

2.560±.010
[65.0±0.3]

Ø.816±.005
[20.7±0.1]

Figure 2

Ø.890±.010

.870±.010

Ø.312±.005

.194±.005

4.564±.070

6-8 AWG

6-8AWG version shown

Ø.890±.010

.870±.010

Ø.225±.005

Ø.140±.005

4.564±.070

10-12 AWG

10-12 AWG version shown

*CC terminal (Fig. 2):
Recommended crimping tool: TBD*

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