

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.

| Technical Data Overview | |
|-------------------------------------|---------|
| Volts | 1500VDC |
| Amps | 4A-80A |
| Short-Circuit Current Rating (SCCR) | 50kA |

FEATURES/BENEFITS

- 4A to 80A 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
- UKCA



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 |
|---------------|--------------|----------------|--------------------------|--------------------|---------------------|------------------------|------------|
| 1500 | 4 | HP15P4* | 50 | | | 20x65 (Figure 1) | N/A |
| | 5 | HP15P5* | | | | | |
| | 6 | HP15P6* | | | | | |
| | 7 | HP15P7* | | | | | |
| | 8 | HP15P8* | | | | | |
| | 10 | HP15P10* | | | | | |
| | 12 | HP15P12* | | | | | |
| | 15 | HP15P15* | | | | | |
| | 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 | | |
| 65 | HP15P65* | | | | | | |
| 70 | HP15P70* | | | | | | |
| 75 | HP15P75* | | | | | | |
| 80 | HP15P80* | | | | | | |
| 1500 | 4 | HP15P4CC* | 50 | | | 22 x 113 (Figure 2) | 10-12 AWG |
| | 5 | HP15P5CC* | | | | | 10-12 AWG |
| | 6 | HP15P6CC* | | | | | 10-12 AWG |
| | 7 | HP15P7CC* | | | | | 10-12 AWG |
| | 8 | HP15P8CC* | | | | | 10-12 AWG |
| | 10 | HP15P10CC* | | | | | 10-12 AWG |
| | 12 | HP15P12CC* | | | | | 10-12 AWG |
| | 15 | HP15P15CC* | | | | | 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 | | 4 AWG |
| | 40 | HP15P40CC | | 4.4 | 7.8 | | 4 AWG |
| | 45 | HP15P45CC | | 4.7 | 8.2 | | 4 AWG |
| | 50 | HP15P50CC | | 5.0 | 9.5 | | 4 AWG |
| | 55 | HP15P55CC | | 5.4 | 9.5 | | 4 AWG |
| | 60 | HP15P60CC | | 6.2 | 11.0 | | 4 AWG |
| 65 | HP15P65CC* | | | 1 AWG | | | |
| 70 | HP15P70CC* | | | 1 AWG | | | |
| 75 | HP15P75CC* | | | 1 AWG | | | |
| 80 | HP15P80CC* | | | 1 AWG | | | |

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

*To be released by December 31, 2023.

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DIMENSIONS

Figure 1

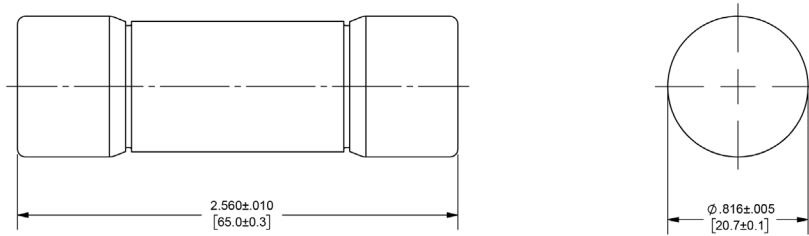
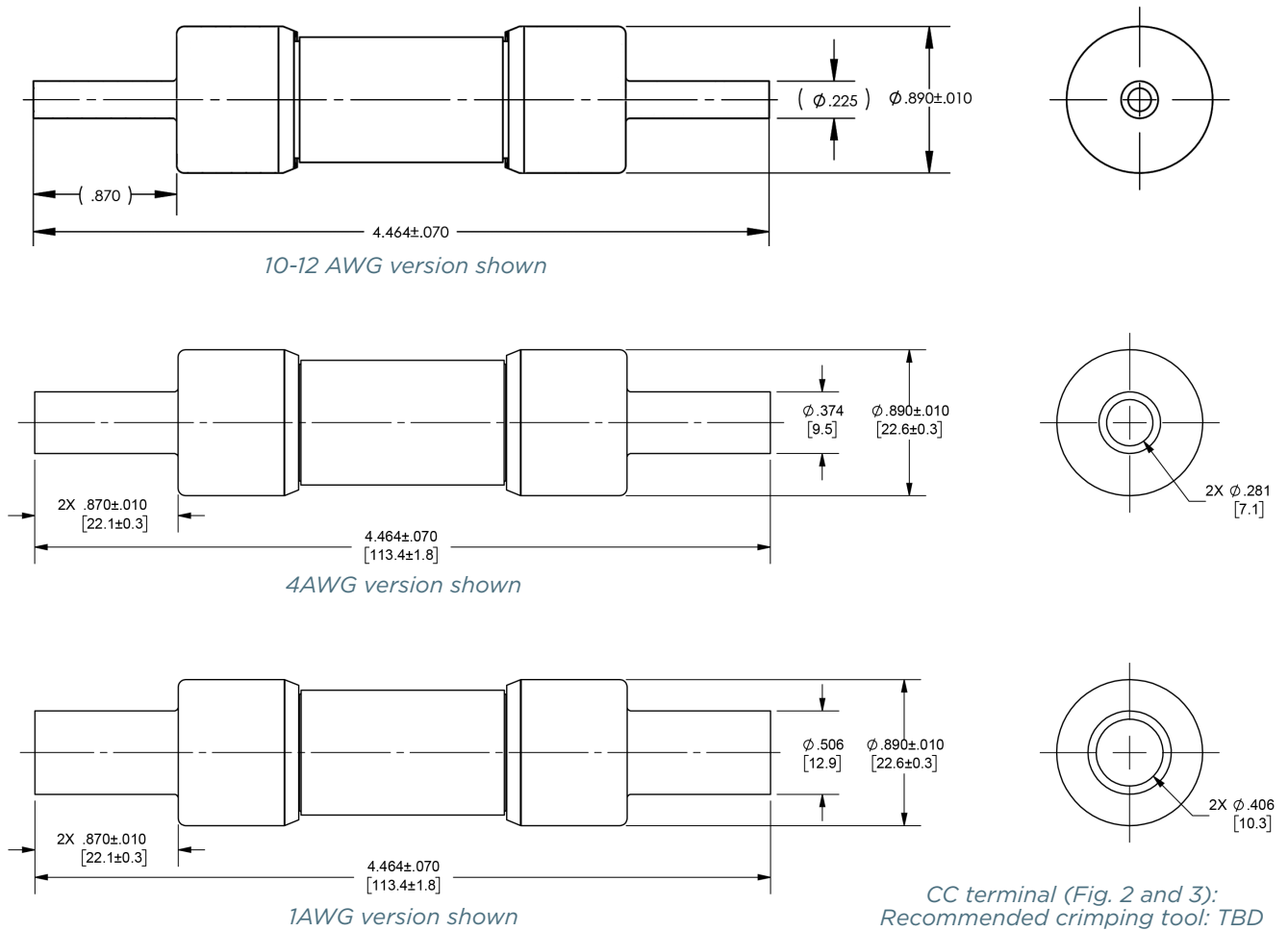


Figure 2



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