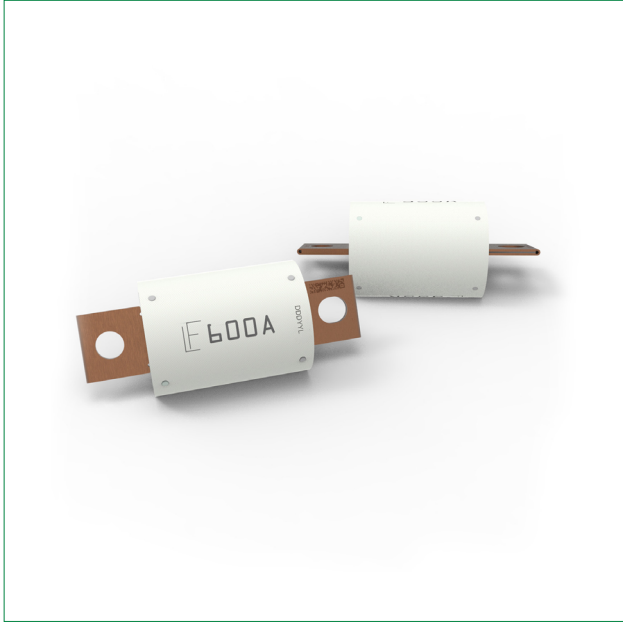


# 38EV Series

## High Voltage Fuses – Rated 500 V DC

RoHS



### Description

The 38EV fuse is designed for protection of high voltage accessory circuits in electric and hybrid electric vehicles.

### Features & Benefits

- High-contrast ampere labels on bodies aid identification
- Refer to ISO 8820-8 JASO D622
- Industry-standard footprint

### Applications

- EVs
- Hybrid passenger vehicles

### Additional Information



Resources



Samples

[See Disclaimer Notice](#)

### Specifications

|                                               |                                                |
|-----------------------------------------------|------------------------------------------------|
| <b>Voltage Rating:</b>                        | 500 V DC                                       |
| <b>Interrupting Rating:</b>                   | 30 kA @ 500 V DC                               |
| <b>Recommended Environmental Temperature:</b> | –40 °C to +125 °C                              |
| <b>Terminals Material:</b>                    | Copper / Copper Alloy                          |
| <b>Housing Material:</b>                      | Melamine<br>(U.L. 94 Flammability rating – V0) |
| <b>End caps Material:</b>                     | Zinc Alloy                                     |
| <b>Recommended Mounting Torque M8:</b>        | 12 ±1 Nm                                       |
| <b>Typical weight:</b>                        | 180 g                                          |
| <b>Refers To:</b>                             | ISO 8820-8 JASO D622                           |

### Ordering Information

| Part Number   | Current Rating (A) | Termination  | Package Size |
|---------------|--------------------|--------------|--------------|
| 38EVxxx.ZXBDM | 300 A - 600 A      | M8 Bolt Down | 48           |

# 38EV Series

## High Voltage Fuses – Rated 500 V DC

### Ratings

| Part Number    | Current Rating (A) | Test Cable Size (mm <sup>2</sup> ) | Typ. Voltage Drop (mV) |
|----------------|--------------------|------------------------------------|------------------------|
| 38EV300.ZXBDM* | 300                | 50                                 | TBD                    |
| 38EV350.ZXBDM* | 350                | 70                                 | TBD                    |
| 38EV400.ZXBDM* | 400                | 70                                 | TBD                    |
| 38EV450.ZXBDM* | 450                | 95                                 | TBD                    |
| 38EV500.ZXBDM* | 500                | 150                                | TBD                    |
| 38EV600.ZXBDM* | 600                | 200                                | TBD                    |

\* Products in development - please contact Littelfuse® for more details regarding availability timing.

**Note 1:** Final values for voltage drop, resistance, melting I<sup>2</sup>t and T/C curves will be generated from PV tests data.

**Note 2:** The typical I<sup>2</sup>t is an average value calculated from the breaking capacity tests by using the melting time before the arcing occurs.

### Time-Current Characteristic

| % of Rating | Opening Time Min. / Max. (s) |
|-------------|------------------------------|
| 100         | 14 400 / -                   |
| 200         | 1 / 300                      |
| 300         | 0.2 / 30                     |
| 500         | 0.05 / 1                     |

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