# CDPV2-32 (L) Fuse Used For Solar PV System Protection

## Product overview

### ■ Scope of Application

CDPV2-32 (L) fuse used for solar PV system protection is applicable to short-circuit overload protection in distribution lines with rated voltage not exceeds DC 1500V, rated current not exceeds 35A and rated short-circuit capacity not exceeds 33kA. It is mainly used in solar photovoltaic junction box for short circuit and overload protection of solar photovoltaic power generation devices and other semiconductor devices.



### ■ Product Advantages

· Consists of a fusion tube, a contact cap, quartz sand and a fuse element, wherein the fuse element adopts a spot welding process, is firmer, and has stable performance.
· Compact size, equipped with CDPV2-32 (L) fuse type isolator, rail type installation, which is easy to install.
· Has that advantage of good fusing characteristic, low power loss, etc.

### ■ Normal Installation Conditions

· Ambient temperature: -25°C ~ + 60°C refers to the air temperature directly surrounding the fuse link, which shall not be confused with the room temperature. In many practical applications, the temperature of the fuse link is quite high, because the fuse link is arranged in a support/base of different structure and the whole fuse is enclosed in a power distribution control cabinet.
· Atmospheric conditions: the relative humidity of the air at the installation site shall not exceed 50% at the maximum temperature of + 60°C; Higher relative humidity is allowed at the lowest temperature. The monthly average minimum temperature of the wettest month shall not exceed -25°C, and the monthly average maximum relative humidity of the month shall not exceed 90%. Action must be taken to prevent condensation on the product due to temperature changes.
· Pollution level: 3
· Installation category: Class III
· Installation place: The fuse shall be free from significant shaking and shock vibration, if the service conditions are different from the above, please consult with the manufacturer. If the conditions of use differ from the above, please consult with the manufacturer.

## Selection Guide

### ■ CDPV2-32(L) PV Fuse

| Product name | Specification | Size | Type | Rated current |
|---|---|---|---|---|
| CDPV2 | 32 | L | T | 1 |
| | 32: Type 32 | L: 10×85<br>Default: 10 × 65 | T: Fuse link | 35A |

### ■ CDPV2-32 (L) PV Fuse

| Product name | Specification | Size of matching fuse link | Type | Agreed heating current |
|---|---|---|---|---|
| CDPV2 | 32 | L | G | 35A |
| | 32: Type 32 | L: 10×85<br>Default: 10 × 65 | G: Fuse type isolator | 35A |

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## Technical Parameters

### ■ PV fuses

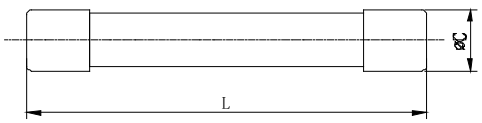
| Product model | Size | Rated voltage (V) | Rated current of fuse link (A) | Rated breaking capacity I1 (kA) | Rated dissipated power of fuse link (W) |
|---|---|---|---|---|---|
| CDPV2-32 | 10×65 | DC1500 | 1, 2, 3, 4, 5, 6, 8, 10, 12, 15, 20, 25, 30, 32, 35 | 33 | ≤8 |
| CDPV2-32L | 10×85 | | | | |

### ■ Fused Isolator

| Product model | Rated working current (A) | Conventional heating current (A) | Rated working voltage (V) | Rated insulation voltage (V) | Use categories | Rated impulse withstand voltage (kV) | Rated limited short circuit current (kA) | Number of poles (P) | Matched fuse link |
|---|---|---|---|---|---|---|---|---|---|
| CDPV2-32(L) | 35 | 35 | DC1500 | DC1500 | DC-20B DC-PV0 | 8 | 33 | 1P | CDPV2-32(L) |

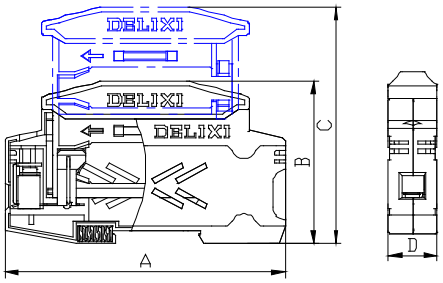
## Outline and installation dimensions

### ■ Photovoltaic Fuse




| Product model | L | C |
|---|---|---|
| CDPV2-32 | $65^{+0.6}_{-1.0}$ | 10.3±0.1 |
| CDPV2-32L | $85^{+0.6}_{-1.0}$ | 10.3±0.1 |

### ■ Fuse Type Isolator




| Product model | A | B | C | D |
|---|---|---|---|---|
| CDPV2-32 | 107±1.5 | 65±1.5 | 95±1.5 | 18±0.5 |
| CDPV2-32L | 127±1.5 | 67±1.5 | 97.5±1.5 | 18±0.5 |

### ■ Ordering Instructions

When ordering fuses, the model, specification and quantity of fuses as well as the rated voltage and current grade of corresponding fuses shall be indicated. Fuses with special specifications and special current levels shall be ordered through consultation with the manufacturer.