## FINAL DISTRIBUTION

# HDPV1-20 Photovoltaic Fuse

Standard: IEC/EN 60269; IEC/EN 60947-3



## Function

- The **HDPV1-20(X)** fuse for solar photovoltaic system protection is suitable for the power distribution line with the rated voltage of not greater than DC1000V, the rated current of not greater than 20A, and the rated short circuit capacity of not greater than 20kA as short circuit overload protection.
- Main material of fuse type disconnector is PA66 reinforced nylon, and the material of conductive socket is T2 copper.
- Small size can mounted with din-rail.
- Good fusing characteristics and low power loss

## Installation Conditions

- Ambient temperature: -25°C~+60°C refers to the working temperature directly around the fuse, not room temperature. The temperature of the fuse might be quite high since the fuse is arranged in the support piece/base of different structures and the entire fuse is enclosed in the power distribution control cabinet.
- Atmospheric conditions: The relative humidity of the air at the highest temperature +60°C at the installation site shall not exceed 50%. The minimum temperature in the wettest month does not exceed -25°C, and the maximum relative humidity of that month does not exceed 90%.
- Pollution class: 3
- Installation category: III
- Installation site: The fuse shall be installed at a place free of obvious shaking and impact vibration

## Selection Guide

**HDPV1-20 fuse-links**

| Range Name | Model | Size | Type | Rated current |
|---|---|---|---|---|
| **HDPV1** | **20** | | **T** | **10** |
| **HDPV1** | **20** | **Default:** 10x38mm | **T:** Fuse-link | **1:** 1A<br>.....<br>**20:** 20A |



**HDPV1-20 fuse-disconnector**

| Range Name | Model | Size | Type | Rated current |
|---|---|---|---|---|
| **HDPV1** | **20** | | | **X** |
| **HDPV1** | **20** | **Default:**<br>Used with<br>10x38mm fuse links | **Default:**<br>Fuse-disconnector | **Default:** No indicator<br>**X:** with indicator |

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## Specification

**Fuse-link**

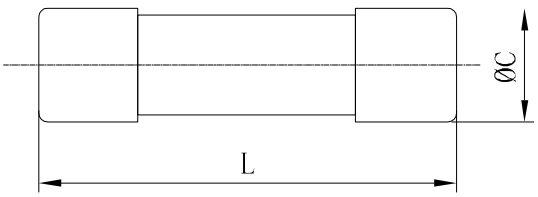
| Product | Size (mm) | Rated voltage (V) | Rated current (A) | Rated breaking I1 (kA) | Rated dissipates power (W) |
|---|---|---|---|---|---|
| HDPV1-20 | 10X38 | DC 1000V | 1,2,3,4,5,6,8, 10,12,15,20 | DC 20 | ≤3.5 |

**Fuse-disconnector**

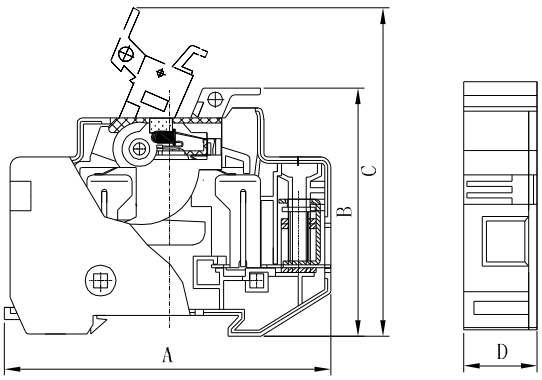
| Product | Rated current (A) | Resistive current (A) | Rated voltage (V) | Rated imsulation voltage (V) | Usage category | Rated impulse voltage (V) | Rated limit short current (kA) | Poles | Fuse-link |
|---|---|---|---|---|---|---|---|---|---|
| HDPV1-20(X) | 20 | 20 | DC 1000 | DC 1000 | DC-20B | 6 | 20 | 1P | HDPV1-20 |

## Dimension

**Fuse-link**




**Fuse-disconnector**




| Product | L | C |
|---|---|---|
| HDPV1-20 | 38±0.6 | 10.2±0.215 |

| Product | A | B | C | D |
|---|---|---|---|---|
| HDPV1-20 | 80±1.5 | 61±1.5 | 78±1.5 | 18±0.2 |