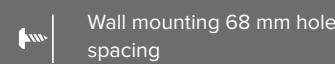


**PV1/  
PV2** Compliance with DC  
Standards  
EN 60947-3/A2-2021



Bi-polar



Wall mounting 68 mm hole  
spacing



35 mm Din rail mounting



Padlockable



IP20 For indoor use



500V DC

 Quality guaranteed by Uniteck

 EN 60947-3

**UNISUN M & BC rigid solar panels**

# HIGH EFFICIENCY

UNIPVSWITCH is a range of two-pole switch-disconnectors ideal for the safe operation of solar installations up to 500V DC (installation, maintenance or emergency intervention).

UNIPVSWITCH is designed to operate even under load, without risk to the switch-disconnector.

Its internal technology reduces the switching time and guarantees fast arc extinguishing during operation.

Thanks to its PV1/PV2 certification, it offers ideal protection, particularly in thermal applications between -40°C and +85°C.

The UNIPVSWITCH can be padlocked to prevent accidental operation during maintenance.

Its mechanical design offers 2 mounting options:

- Wall mounting (2 holes spaced 68 mm apart)
- 35 mm Din rail



**Red and yellow  
rotating handle  
(optional)**



**UNIPVSWITCH  
500.32.2P**

Ref 5076

2



**UNIPVSWITCH  
500.50.2P**

Ref 5083

2



**UNIPVSWITCH  
500.50.2P**

Ref 5083

2

#### General technical data

|                                   |              |              |          |
|-----------------------------------|--------------|--------------|----------|
| Number of clusters                | 2            | 2            | 2        |
| Fixation                          | Rail DIN/vis | Rail DIN/vis | built-in |
| Category of use                   |              |              |          |
| DC-PV1                            | yes          | yes          | yes      |
| DC-PV2                            | yes          | yes          | yes      |
| Rated insulation voltage (Ui)     | 1500 V       | 1500 V       | 1500 V   |
| Impulse withstand voltage (Uiimp) | 8000 V       | 8000 V       | 8000 V   |
| Power dissipation per pole at 20A | 0,2 W        | 0,2 W        | 0,2 W    |
| Power dissipation per pole at 50A | 1,25 W       | 1,25 W       | 1,25 W   |

#### Operating current to EN 60947-3/A2 2015 (Ie)

|                |      |      |      |
|----------------|------|------|------|
| 500 V DC (Ue)  |      |      |      |
| PV1            | 32 A | 50 A | 50 A |
| PV2            | 16 A | -    | -    |
| 750 V DC (Ue)  |      |      |      |
| PV1            | 25 A | 32 A | 32 A |
| PV2            | 10 A | 18 A | 18 A |
| 1000 V DC (Ue) |      |      |      |
| PV1            | 12 A | 20 A | 20 A |
| PV2            | 4 A  | 10 A | 10 A |

#### Technical data for short-circuit protection

|                                                      |        |        |        |
|------------------------------------------------------|--------|--------|--------|
| Rated conditioned short-circuit current              | 5000 A | 5000 A | 5000 A |
| Maximum fuse size for short-circuit protection (gPV) | 50 A   | 50 A   | 50 A   |
| Rated short-time current - 1 s (Icw)                 | 780 A  | 780 A  | 780 A  |
| Rated short-circuit capacity (Icm)                   | 1400 A | 1400 A | 1400 A |

#### Mechanical characteristics

|                                                       |                   |                   |                   |
|-------------------------------------------------------|-------------------|-------------------|-------------------|
| Max. cable cross-section (direct contact without lug) | 6mm <sup>2</sup>  | 6mm <sup>2</sup>  | 6mm <sup>2</sup>  |
| Max. cable cross-section (with fork terminal)         | 10mm <sup>2</sup> | 10mm <sup>2</sup> | 10mm <sup>2</sup> |
| Fixing screw size                                     | M4                | M4                | M4                |
| Contact clamping force +/-10%.                        | 1,7 Nm            | 1,7 Nm            | 1,7 Nm            |

|                                   |                |                |                |
|-----------------------------------|----------------|----------------|----------------|
| Operating and storage temperature | -40°C to +85°C | -40°C to +85°C | -40°C to +85°C |
|-----------------------------------|----------------|----------------|----------------|

|                  |       |       |       |
|------------------|-------|-------|-------|
| Protection class | IP 20 | IP 20 | IP 20 |
|------------------|-------|-------|-------|

|                      |      |      |      |
|----------------------|------|------|------|
| Materials            |      |      |      |
| Plastic bodies       | V0   | V0   | V0   |
| External metal parts | Inox | Inox | Inox |

|                                       |              |              |              |
|---------------------------------------|--------------|--------------|--------------|
| External dimensions (H x W x D) in mm | 78 x 45 x 76 | 78 x 45 x 76 | 78 x 45 x 76 |
|---------------------------------------|--------------|--------------|--------------|

|        |       |       |       |
|--------|-------|-------|-------|
| Weight | 145 g | 145 g | 145 g |
|--------|-------|-------|-------|

|          |  |  |  |
|----------|--|--|--|
| Warranty |  |  |  |
|----------|--|--|--|

|          |  |  |  |
|----------|--|--|--|
| Duration |  |  |  |
|----------|--|--|--|