

**VPUM2I2SXFV100TXPX10****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



PV Protect is the solution for optimum protection of the inverter against overvoltages. The ready-to-connect boxes are available for different system voltages and can be supplied with various arrester types and MPP trackers. Depending on requirements, connection is made via cable glands or WM4C connectors with convenient and reliable PUSH IN connection technology.

**General ordering data**

|            |   |
|------------|---|
| Version    | Surge protection, 2 MPP's, Surge protection I / II, Cable gland, PUSH IN connection, 1000 V |
| Order No.  | <a href="#">2755980000</a>  |
| Type       | VPUM2I2SXFV100TXPX10  |
| GTIN (EAN) | 4064675003342   |
| Qty.       | 1 pc(s).  |

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## Technical data

## Dimensions and weights

|            |        |                 |            |
|------------|--------|-----------------|------------|
| Depth      | 91 mm  | Depth (inches)  | 3.583 inch |
| Height     | 145 mm | Height (inches) | 5.709 inch |
| Width      | 168 mm | Width (inches)  | 6.614 inch |
| Net weight | 915 g  |                 |            |

## Temperatures

|                     |                       |                       |                |
|---------------------|-----------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C        | Operating temperature | -40 °C...85 °C |
| Humidity            | 5 - 95% rel. humidity |                       |                |

## Enclosure

|                               |   |                      |   |
|-------------------------------|---|----------------------|---|
| Connection type string        | Internal terminal (with cable gland feed-through) | Enclosure attachment | Via the four holes under the cover screws |
| Switch disconnecter execution | no switch   |                      |   |

## General data

|                   |      |           |             |
|-------------------|------|-----------|-------------|
| Protection degree | IP67 | Standards | EN 50539-11 |
|-------------------|------|-----------|-------------|

## Inputs

|                                |                                   |                         |         |
|--------------------------------|-----------------------------------|-------------------------|---------|
| Amount of maximum power points | 2 MPP                             |                         |         |
| DC Input + & -                 | Wire connection                   | Type of connection      | PUSH IN |
|                                | Cable entry                       | Number of cable entries | 2       |
| Functional earth connector     | Cable entry                       | Number of cable entries | 1       |
|                                | Wire connection                   | Type of connection      | PUSH IN |
| Fuse type                      | Neither fuse cartridge nor holder |                         |         |

## Surge protection DC side

|  |               |  |               |
|--|---------------|--|---------------|
| Conditions and requirements  | EN 50539-11   | Discharge current $I_n$ (8/20 $\mu$ s)               | 20 kA         |
| Discharge current, max. (8/20 $\mu$ s)                             | 40 kA         | Lightning test current $I_{imp}$ (10/350 $\mu$ s)    | 6.25 kA       |
| Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/-PE | 1,100 V       | Operating height in the grounded PV system           | $\leq 4000$ m |
| Operating height in ungrounded PV system                           | $\leq 4000$ m | PV system voltage, max. $U_{cpv}$                    | 1,100 V       |
| Protection level $U_p$ (+/-, -/PE, +/-PE)                          | $\leq 4,2$ kV | Requirements class                                   | Type I/II     |
| Short-circuit current $I_{SCPv}$                                   | 11 kA         | Standards  | EN 50539-11   |
| Total discharge current $I_{total}$ (8/20 $\mu$ s)                 | 50            | Total discharge current $I_{total}$ (10/350 $\mu$ s) | 12.5 kA       |

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000941    | ETIM 7.0    | EC000941    |
| ETIM 8.0    | EC000941    | ETIM 9.0    | EC000941    |
| ECLASS 9.1  | 27-13-08-05 | ECLASS 10.0 | 27-13-08-05 |
| ECLASS 11.0 | 27-13-08-05 | ECLASS 12.0 | 27-17-90-90 |
| ECLASS 13.0 | 27-17-90-90 |             |             |

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[www.weidmueller.com](http://www.weidmueller.com)**Technical data****Tender specification sheets**

## Long specification

Designation 2: VPU PV  
BOX CG I+II 5 1000 2M  
Over voltage protection  
box for inverters with  
2Mpp tracker, used to pro-  
tect the DC side. Max.  
String voltage Uoc: 1000  
V MPPT1: 1 input, con-  
nection via cable gland  
(4-8mmØ) cable cross sec-  
tion: max. 16mm<sup>2</sup> MPPT  
2 is identical to MPPT 1  
Connection of the box in  
stitch without DC switch  
2 surge protection type II  
Connection of function-  
al earth via cable glands  
(8-12mmØ) cable cross-  
section: 16mm<sup>2</sup> Protection  
class: IP65 and IP67 Plas-  
tic enclosure Dimensions  
HxWxD: 168x145x91  
mm According to stan-  
dard, EN 50539-11:  
2013+A1:2014 IEC  
61643-31: 2018

**Environmental Product Compliance**

REACH SVHC

/

**Important note**

Product information

The SPD in the box cannot be replaced.

**Approvals**

Approvals



ROHS

Conform

**Downloads**Approval/Certificate/Document of Con-  
formity[EU Declaration of Conformity](#)

User Documentation

[Manual PV Protect T1](#)

Catalogues

[Catalogues in PDF-format](#)

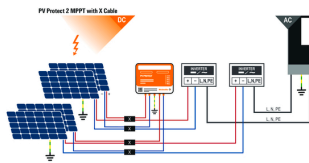
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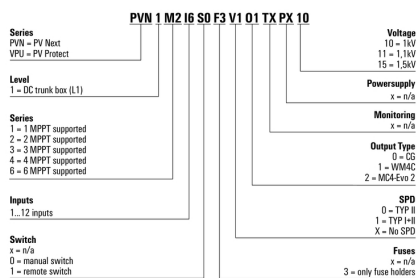
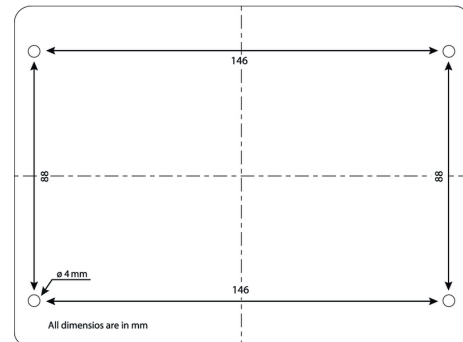
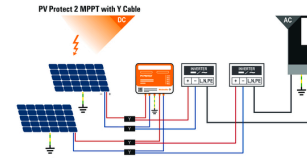
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## Drawings

## Connection diagram



## Connection diagram



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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****... for photovoltaic plug-in connectors**

After stripping the insulation, a suitable contact or wire end ferrule can be crimped onto the end of the cable. Crimping forms a secure connection between conductor and contact and has largely replaced soldering. Crimping denotes the creation of a homogeneous, permanent connection between conductor and connecting element. The connection can be made only with high-quality precision tools. The result is a secure and reliable connection both in mechanical and electrical terms. Weidmüller offers a wide range of mechanical crimping tools. Integral ratchets with release mechanisms guarantee optimum crimping. Crimped connections made with Weidmüller tools comply with international standards and regulations.

**General ordering data**

|            |                            |   |
|------------|----------------------------|---|
| Type       | CTF PV WM4                 | Version   |
| Order No.  | <a href="#">1222870000</a> | Photovoltaics, Crimping tool for photovoltaic contacts, Mechanical, |
| GTIN (EAN) | 4050118006254              | without interchangeable inserts                                     |
| Qty.       | 1 pc(s).                   |   |

**Y-Connector Cables**

The Y or X cable is used to connect three or four elements of a PV system, such as the connection between PV panels, inverters and surge protection boxes. The cables are available in different connection variants.

**General ordering data**

|            |                            |   |
|------------|----------------------------|---|
| Type       | PVHYW-XXPXX06W+15          | Version   |
| Order No.  | <a href="#">2814220000</a> | Photovoltaics, Y-Connector Cable, 1x WM4 C Male, 1x Partly stripped |
| GTIN (EAN) | 4064675298908              | cable end, 1x WM4 C Female, 6mm <sup>2</sup> , 1500 V               |
| Qty.       | 1 pc(s).                   |   |

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## Accessories

### X-Connector Cables



The Y or X cable is used to connect three or four elements of a PV system, such as the connection between PV panels, inverters and surge protection boxes. The cables are available in different connection variants.

#### General ordering data

|            |                            |   |
|------------|----------------------------|---|
| Type       | PVHXW-W-PXXX06W+15         | Version   |
| Order No.  | <a href="#">2814280000</a> | Photovoltaics, X-Connector Cable, 2x WM4 C Male, 1x Partly stripped |
| GTIN (EAN) | 4064675298960              | cable end, 1x WM4 C Female, 6mm <sup>2</sup> , 1500 V               |
| Qty.       | 1 pc(s).                   |   |
| Type       | PVHXW+W-PXXX06M-15         | Version   |
| Order No.  | <a href="#">2814290000</a> | Photovoltaics, X-Connector Cable, 2x WM4 C Female, 1x Partly        |
| GTIN (EAN) | 4064675298977              | stripped cable end, 1x WM4 C Male, 6mm <sup>2</sup> , 1500 V        |
| Qty.       | 1 pc(s).                   |   |

### Crosshead screwdriver Phillips



Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

#### General ordering data

|            |                            |                          |
|------------|----------------------------|--------------------------|
| Type       | SDK PH2                    | Version                  |
| Order No.  | <a href="#">9008490000</a> | Screwdriver, Screwdriver |
| GTIN (EAN) | 4032248056484              |                          |
| Qty.       | 1 pc(s).                   |                          |

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Tools**

- For flexible and solid conductors with special insulating materials
- High-quality stripping for industrial applications (complies with aircraft industry requirements)
- Specially shaped blades enable stripping of special types of insulation and conductor configurations
- Stripping length adjustable via end stop
- Very versatile thanks to interchangeable stripping units
- Stripping results reproduced accurately over and over again
- No damage to the conductor
- A long-lasting, reliable tool thanks to its sturdy design
- Integrated cutting function

**General ordering data**

|            |                            |                                  |
|------------|----------------------------|----------------------------------|
| Type       | MULTI-STRIPAX PV           | Version                          |
| Order No.  | <a href="#">1190490000</a> | Photovoltaics, Plug-in connector |
| GTIN (EAN) | 4032248973262              |                                  |
| Qty.       | 1 pc(s).                   |                                  |