

**VPUM111SFXV200TXPX15**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)


PV Protect is the solution for optimum protection of the inverter against overvoltages. It is very compact and only requires Y-cables to connect to the PV strings. So it is a perfect product to retrofit existing PV residential installations with overvoltage protection.

**General ordering data**

Version	Surge protection, 1 MPP, Surge protection II, Cable gland, PUSH IN connection, 1500 V
Order No.	<a href="#">2755990000</a>
Type	VPUM111SFXV200TXPX15
GTIN (EAN)	4064675003359
Qty.	1 items
Delivery status	This article will no longer be available in the future.
Available until	2026-03-31T00:00:00+02:00
Alternative product	<a href="#">PVI DC 1I 1O 1MPP SPD1 MC4 10</a>

## VPUM1I1SXFV200TXPX15

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## Technical data

## Approvals

Approvals



ROHS Conform

## Dimensions and weights

Depth	91 mm	Depth (inches)	3.5827 inch
Height	145 mm	Height (inches)	5.7086 inch
Width	168 mm	Width (inches)	6.6142 inch
Net weight	694 g		

## Temperatures

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

## Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

## Enclosure

Enclosure attachment	Via the four holes under the cover screws	Connection type string	Internal terminal (with cable gland feed-through)
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## General data

Standards	EN 50539-11	Protection degree	IP67
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## Inputs

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

## Surge protection DC side

Standards	EN 50539-11	Discharge current, max. (8/20 µs)	40 kA
Protection level Up (+/-, -/PE, +/-PE)	≤ 4.8 kV	Conditions and requirements	EN 50539-11
Operating height in ungrounded PV system	≤ 4000 m	Short-circuit current ISCPv	11 kA
Total discharge current I <sub>total</sub> (8/20 µs)	50 kA	Discharge current I <sub>n</sub> (8/20 µs)	15 kA
Requirements class	Type II	Operating height in the grounded PV system	≤ 4000 m
PV system voltage, max. U <sub>cpv</sub>	1500 V		

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## Important note

Product information	The SPD in the box cannot be replaced.
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## Classifications

ETIM 7.0	EC001457	ETIM 8.0	EC001457
ETIM 9.0	EC001457	ETIM 10.0	EC001457
ECLASS 12.0	27-17-14-03	ECLASS 13.0	27-17-14-03
ECLASS 14.0	27-17-14-03	ECLASS 15.0	27-17-14-03

## Tender specification sheets

Long specification	<p>Designation 2: VPU PV BOX CG II 3 1500 1M Over voltage protection box for inverters with 1 Mpp tracker, used to protect the DC side. Max. String voltage Uoc: 1500 V MPPT1: 1 input, connection via cable gland (4-8mmØ) cable cross section: max. 16mm<sup>2</sup> Connection of the box in stitch without DC switch 1 surge protection type II Connection of functional earth via cable glands (8-12mmØ) cable cross-section: 16mm<sup>2</sup> Protection class: IP65 and IP67 Plastic enclosure Dimensions HxWxD: 168x145x91 mm According to standard, EN 50539-11: 2013+A1:2014 IEC 61643-31: 2018</p>
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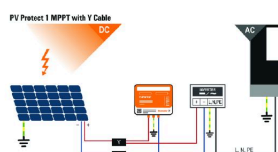
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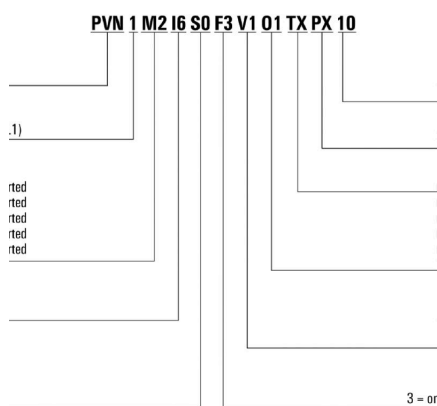
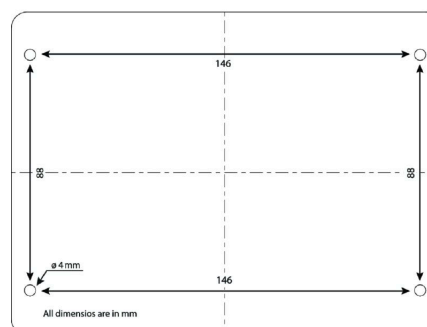
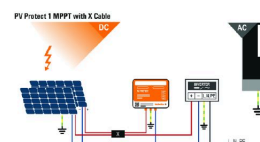
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## Drawings

### Connection diagram



### Connection diagram



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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 ST	

**... 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 ST	

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## 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 ST	

### Y-Connector Cables



The Y cable is used for the parallel connection of several strings in a PV system, e.g. for splitting a line in front of an inverter.

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 cable end, 1x WM4 C Female, 6mm², 1500 V
GTIN (EAN)	4064675298908	
Qty.	1 ST	

### X-Connector Cables



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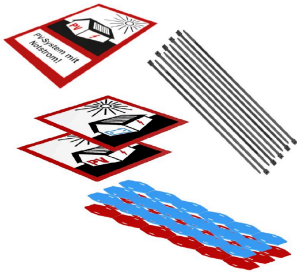
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**Accessories****General ordering data**

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 ST	

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 ST	

**PV marking sets****General ordering data**

Type	PV MARKER 1-3 MPP	Version
Order No.	<a href="#">8000149520</a>	Photovoltaics, Device markers, Accessories, Conductor and cable
GTIN (EAN)	4099987229197	markers, Cable ties, Marking set, Warning label, Cable marker, Self-
Qty.	1 ST	adhesive

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## Counterpart

## X-Connector Cables



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The cables are available in different connection variants.

## General ordering data

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 ST	
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 ST	

## Y-Connector Cables



The Y cable is used for the parallel connection of several strings in a PV system, e.g. for splitting a line in front of an inverter.

The cables are available in different connection variants.

## General ordering data

Type	PVHYW-XXPXXX06W+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 ST	