

## VPUM111SXFV200TXPX10

**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, 1000 V
Order No.	<a href="#">2755950000</a>
Type	VPUM111SXFV200TXPX10
GTIN (EAN)	4064675003304
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>

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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	705 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	Screw connection
DC Input + & -	Wire connection	Type of connection	PUSH IN
	Cable entry	Number of cable entries	1
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)	≤4,2 kV	Conditions and requirements	EN 50539-11
Operating height in ungrounded PV system	≤ 4000 m	Short-circuit current ISCPV	11 kA
Total discharge current Itotal (8/20µs)	50 kA	Discharge current In (8/20 µs)	20 kA
Requirements class	Type II	Operating height in the grounded PV system	≤ 4000 m
PV system voltage, max. Ucpv	1100 V	Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/-PE	1100 V

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**Important note**

Product information      The SPD in the box cannot be replaced.

**Classifications**

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

**Tender specification sheets**

Long specification      Designation 2: VPU PV  
 BOX CG II 3 1000 1M  
 Over voltage protection  
 box for inverters with  
 1 Mpp tracker, used  
 to protect the DC side.  
 Max. String voltage  
 Uoc:1000 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

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Drawings

Connection diagram



Connection diagram



Series	Voltage
PVN = PV Next	10 = 1kV
VPU = PV Protect	11 = 1,1kV
	15 = 1,5kV
Level	Powersupply
1 = DC trunk box (L1)	x = n/a
Series	Monitoring
1 = 1 MPPT supported	x = n/a
2 = 2 MPPT supported	
3 = 3 MPPT supported	
4 = 4 MPPT supported	
6 = 6 MPPT supported	
Inputs	Output Type
1...12 inputs	0 = CG
	1 = WM4C
	2 = MC4-Evo 2
Switch	SPD
x = n/a	2/0 = TYP II
0 = manual switch	1 = TYP I+II
1 = remote switch	X = No SPD
	Fuses
	x = n/a
	3 = only fuse holders

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## Accessories

### 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 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, 6mm <sup>2</sup> , 1500 V	
GTIN (EAN)	4064675298908		
Qty.	1 ST		

### X-Connector Cables



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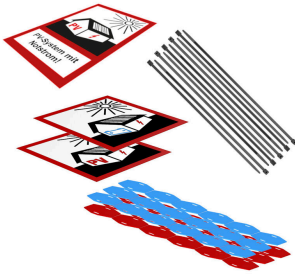
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**Accessories**

**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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#### 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		