

VPUM111SXFV100TXPX10

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. 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 I / II, Cable gland, PUSH IN connection, 1000 V
Order No.	2755970000
Type	VPUM111SXFV100TXPX10
GTIN (EAN)	4064675003335
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	PVI DC 1I 1O 1MPP SPD1 MC4 10

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Technical data

Approvals

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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	701 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
DC Input + & -	Wire connection	Type of connection	PUSH IN
Fuse type	Neither fuse cartridge nor holder		
Number of string inputs per MPP	1		

Surge protection DC side

Standards	EN 50539-11	Lightning test current Iimp (10/350 µs)	6.25 kA
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 ISCP	11 kA	Total discharge current Itotal (8/20µs)	50 kA
Discharge current In (8/20 µs)	20 kA	Requirements class	Type I/II
Operating height in the grounded PV system	≤ 4000 m	Total discharge current Itotal (10/350µs)	12.5 kA
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 I+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.
 16mm² 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:
 16mm² Protection class:
 IP65 and IP67 Plastic
 enclosure Dimensions
 HxWxD:168x145x91
 mm According to
 standard, EN 50539-11:
 2013+A1:2014 IEC
 61643-31: 2018

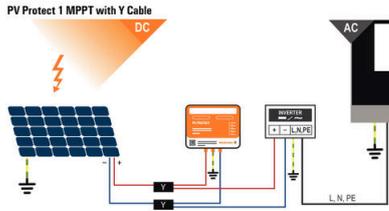
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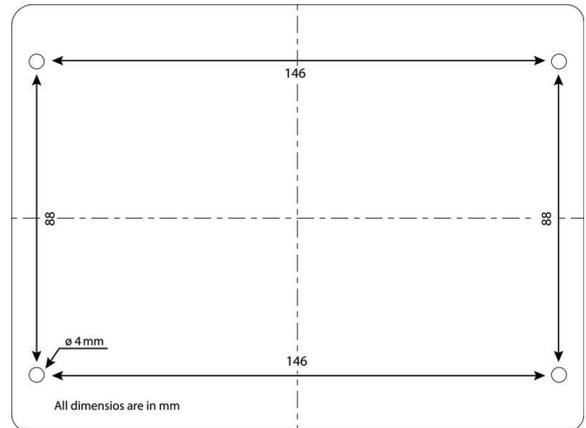
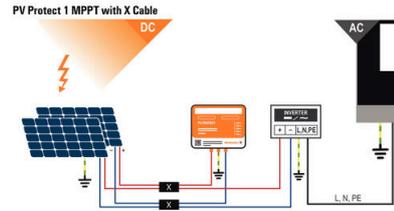
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Drawings

Connection diagram



Connection diagram



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

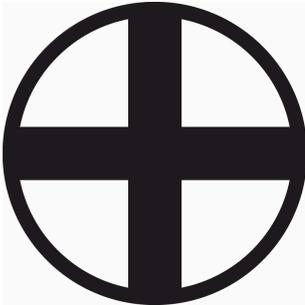
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Accessories

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.	9008490000	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.	1222870000	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.	1190490000	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.	2814220000	Photovoltaics, Y-Connector Cable, 1x WM4 C Male, 1x Partly stripped cable end, 1x WM4 C Female, 6mm ² , 1500 V	
GTIN (EAN)	4064675298908		
Qty.	1 ST		

X-Connector Cables



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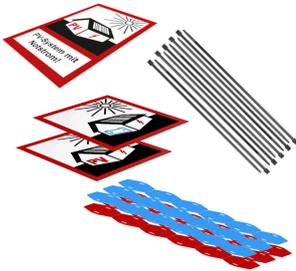
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Accessories

General ordering data

Type	PVHXW-W-PXXX06W+15	Version	
Order No.	2814280000	Photovoltaics, X-Connector Cable, 2x WM4 C Male, 1x Partly stripped	
GTIN (EAN)	4064675298960	cable end, 1x WM4 C Female, 6mm ² , 1500 V	
Qty.	1 ST		
Type	PVHXW+W+PXXX06M-15	Version	
Order No.	2814290000	Photovoltaics, X-Connector Cable, 2x WM4 C Female, 1x Partly	
GTIN (EAN)	4064675298977	stripped cable end, 1x WM4 C Male, 6mm ² , 1500 V	
Qty.	1 ST		

PV marking sets



General ordering data

Type	PV MARKER 1-3 MPP	Version	
Order No.	8000149520	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.	2814290000	Photovoltaics, X-Connector Cable, 2x WM4 C Female, 1x Partly	
GTIN (EAN)	4064675298977	stripped cable end, 1x WM4 C Male, 6mm ² , 1500 V	
Qty.	1 ST		
Type	PVHXW-W-PXXX06W+ 15	Version	
Order No.	2814280000	Photovoltaics, X-Connector Cable, 2x WM4 C Male, 1x Partly stripped	
GTIN (EAN)	4064675298960	cable end, 1x WM4 C Female, 6mm ² , 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.	2814220000	Photovoltaics, Y-Connector Cable, 1x WM4 C Male, 1x Partly stripped	
GTIN (EAN)	4064675298908	cable end, 1x WM4 C Female, 6mm ² , 1500 V	
Qty.	1 ST		