

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. 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, 2 MPP's, Surge protection I / II, Cable gland, PUSH IN connection, 1000 V
Order No.	2755980000
Type	VPUM2I2SXFV100TXPX10
GTIN (EAN)	4064675003342
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 2MPP 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	915 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)	2 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
	Cable entry	Number of cable entries	2
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 ISCPV	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

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PV system voltage, max. Ucpv	1100 V	Maximum continuous operating voltage 1100 V DC UCPV mode +/-, -/PE, +/PE
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Important note

Product information The SPD in the box cannot be replaced.

Classifications

ETIM 8.0	EC000941	ETIM 9.0	EC000941
ETIM 10.0	EC000941	ECLASS 14.0	27-17-14-02
ECLASS 15.0	27-17-14-02		

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 protect the DC side. Max. String voltage Uoc: 1000 V MPPT1: 1 input, connection via cable gland (4-8mmØ) cable cross section: max. 16mm ² MPPT 2 is identical to MPPT 1 Connection of the box in stitch without DC switch 2 surge protection type II Connection of functional earth via cable glands (8-12mmØ) cable cross-section: 16mm ² 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

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Connection diagram



Connection diagram



PVN 1 M2 I6 S0 F3 V1 Q1 TX PX 10	
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	Output Type
4 = 4 MPPT supported	0 = CG
6 = 6 MPPT supported	1 = WM4C
	2 = MC4-Evo 2
Inputs	SPD
1...12 inputs	2/0 = TYP II
	1 = TYP I+II
	X = No SPD
Switch	Fuses
x = n/a	x = n/a
0 = manual switch	3 = only fuse holders
1 = remote switch	