Data sheet

VPUM2I2SXFXV1O1TXPX10

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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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, WM4C, 1000 V
Order No.	2764150000
Type	VPUM2I2SXFXV1O1TXPX10
GTIN (EAN)	4064675016120
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

Approvals	CE
ROHS	Conform

Dimensions and weights

Depth	91 mm	Depth (inches)	3.5827 inch
Height	160 mm	Height (inches)	6.2992 inch
Width	168 mm	Width (inches)	6.6142 inch
Net weight	1008 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%

Approvals and norms

Approvals	EN 50539-11

Enclosure

Enclosure attachment	Via the four holes under the cover screws	Connection type string	Plug WM4C

General data

Standards	EN 50539-11	Protection degree	IP67

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	WM4 C field connector
	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 limp (10/350 µs)	6.25 kA
Discharge current, max. (8/20 µs)	40 kA	Protection level Up (+/- , -/PE , +/PE)	≤4,2 kV

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Conditions and requirements	EN 50539-11	Operating height in ungrounded PV system	≤ 4000 m
Short-circuit curent 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
PV system voltage, max. Ucpv	1100 V	Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/PE	1100 V

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 WM4 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 WM4 C plug-in connector, compatible with cable type TÜV 2 Pfg1169/08.07 / EN 50618:2069 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: 16mm² Protection class: IP65 and IP67 Plastic enclosure Dimensions HxWxD:168x160x91 mm According to standard, EN 50539-11: 2013+A1:2014 IEC 61643-31: 2018

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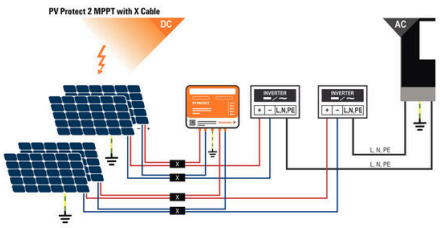
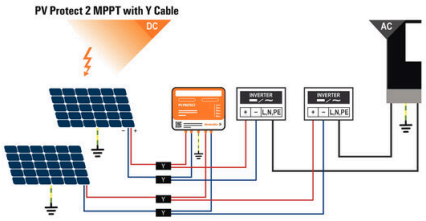
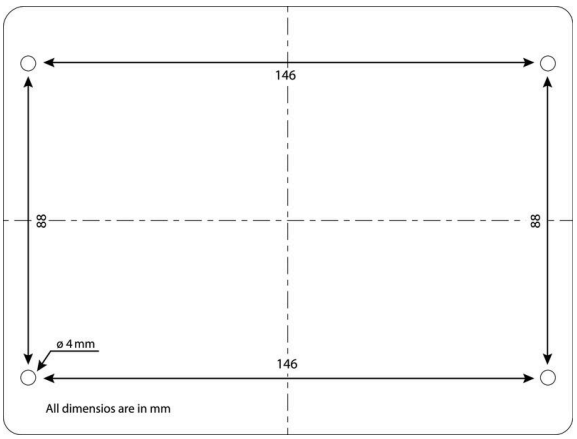
Drawings

Connection diagram



Connection diagram





PVN 1 M2 I6 S0 F3 V1 O1 TX PX 10

Series
PVN = PV Next
VPU = PV Protect

Level
1 = DC trunk box (L1)

Series
1 = 1 MPPT supported
2 = 2 MPPT supported
3 = 3 MPPT supported
4 = 4 MPPT supported
6 = 6 MPPT supported

Inputs
1...12 inputs

Switch
x = n/a
0 = manual switch
1 = remote switch

Voltage
10 = 1kV
11 = 1,1kV
15 = 1,5kV

Powersupply
x = n/a

Monitoring
x = n/a

Output Type
0 = CG
1 = WM4C
2 = MC4-Evo 2

SPD
2/0 = TYP II
1 = TYP I+II
X = No SPD

Fuses
x = n/a
3 = only fuse holders