

VPUM111SXFV101TXPX10

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
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 Germany

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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, WM4C, 1000 V
Order No.	2764140000
Type	VPUM111SXFV101TXPX10
GTIN (EAN)	4064675016113
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

Approvals



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	772 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
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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	WM4C plug-in connector
	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
Conditions and requirements	EN 50539-11	Operating height in ungrounded PV system	≤ 4000 m
Short-circuit current ISCPV	11 kA	Total discharge current I _{total} (8/20μs)	50 kA

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Discharge current I_n (8/20 μ s)	20 kA	Requirements class	Type I/II
Operating height in the grounded PV system	\leq 4000 m	Total discharge current I_{total} (10/350 μ s)	12.5 kA
PV system voltage, max. U_{cpv}	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	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 WM4 I+II 3 1000 1M
 Over voltage protection box for inverters with 1 Mpp tracker, used to protect the DC side.
 Max. String voltage U_{oc} : 1000 V MPPT1: 1 input, connection via WM4 C plug-in connector, compatible with cable type TÜV 2 Pfg 1169/08.07 / EN 50618:2069
 Connection of the box in stitch without DC switch 1 surge protection type II Connection of functional earth via cable glands (8-12mm \varnothing) 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

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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