

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

VPUM1I1SXFV100TXPX10

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

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	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)
----------------------	---	------------------------	---

General data

Standards	EN 50539-11	Protection degree	IP67
-----------	-------------	-------------------	------

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 I _{SCPV}	11 kA	Total discharge current I _{total} (8/20 μs)	50 kA
Discharge current I _n (8/20 μs)	20 kA	Requirements class	Type I/II
Operating height in the grounded PV system	≤ 4000 m	Total discharge current I _{total} (10/350 μs)	12.5 kA
PV system voltage, max. U _{cpv}	1100 V	Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/-PE	1100 V

VPUM1I1SXFV100TXPX10

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

Technical data

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

VPUM111SXXFXV100TXPX10

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

Drawings

www.weidmueller.com

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