

## VPU I 2+0 PV 1000V DC

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com



Similar to illustration

### Type I/II lightning arrester for use in photovoltaic applications

- Suitable for protection zones III and IV (LPL III/IV)
- Can also be used as Type II surge protection
- Tested in accordance with EN 50539-11
- Suitable for use in accordance with IEC 60364-7-712 / EN 50539-12
- Use if the separation distance cannot be observed

### General ordering data

Version	Surge voltage arrester, Low voltage, without telecomm. contact
Order No.	<a href="#">1351470000</a>
Type	VPU I 2+0 PV 1000V DC
GTIN (EAN)	4050118158649
Qty.	1 pc(s).
Delivery status	<b>This article will no longer be available in the future.</b>
Available until	2022-03-30
Alternative product	<a href="#">2530610000</a>

## VPU I 2+0 PV 1000V DC

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmuller.com

www.weidmuller.com

## Technical data

### Dimensions and weights

Depth	69 mm	Depth (inches)	2.717 inch
Height	94 mm	Height (inches)	3.701 inch
Width	71.2 mm	Width (inches)	2.803 inch
Mounting dimension - height	75 mm	Net weight	784 g

### Temperatures

Storage temperature	-40 °C...80 °C
---------------------	----------------

### General data

Colour	black	Design	Installation housing; 4TE, Insta IP 20
Operating altitude	≤ 2000 m	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20	Rail	TS 35
UL 94 flammability rating	V-0	Version	without telecomm. contact

### Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	IV
--------------------	---	------------------------	----

### Photovoltaic technical data

Conditions and requirements	EN 50539-11	Discharge current $I_n$ (8/20 μs)	20 kA
Discharge current, max. (8/20 μs)	40 kA	Maximum continuous operating voltage UCPV mode +/-, -/PE, +/PE	1,000 V DC
PV system voltage, max. $U_{cpv}$	1,000 V	Protection level $U_p$ (+/-)	≤ 5.2 kV
Protection level $U_p$ (+/PE)	≤ 2.6 kV	Protection level $U_p$ (-/PE)	≤ 2.6 kV
Short-circuit current $I_{SCPV}$	200 A	Standards	EN 50539-11
Total discharge current $I_{total}$ (8/20 μs)	40 kA		

### Rated data IEC / EN

Discharge current $I_n$ (8/20 μs) wire-PE	40 kA	Discharge current, max. (8/20 μs)	40 kA
Leakage current at $U_n$	100 μA	Lightning test current $I_{imp}$ (10/350 μs) (L-PE)	12.5 kA
Max. continuous voltage, $U_c$ (DC)	1000 V	Number of poles	4
PV voltage, acc. to IEC 60364-7-712	≤ 1000 V	Rated voltage (DC)	1000 V
Response time	≤ 25 ns	SPD type	T1, T2
Signalling contact	No	Standards	EN 50539-11
Voltage type	DC		

## VPU I 2+0 PV 1000V DC

Weidmüller Interfaces GmbH &amp; Co. KG

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com

## Technical data

## Connection data

Stripping length	15 mm	Type of connection	Screw connection
Stripping length, rated connection	15 mm	Tightening torque, min.	2 Nm
Tightening torque, max.	3 Nm	Clamping range, rated connection	16 mm <sup>2</sup>
Clamping range, min.	4 mm <sup>2</sup>	Clamping range, max.	35 mm <sup>2</sup>
Wire cross-section, solid, min.	2.5 mm <sup>2</sup>	Wire cross-section, solid, max.	16 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	2.5 mm <sup>2</sup>	Wire connection cross section, finely stranded, max.	25 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	50 mm <sup>2</sup>
Connection cross-section, stranded, min.	2.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	50 mm <sup>2</sup>

## Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ECLASS 9.0	27-13-08-05
ECLASS 9.1	27-13-08-05	ECLASS 10.0	27-13-08-05
ECLASS 11.0	27-13-08-05	ECLASS 12.0	27-17-90-90

## Tender specification sheets

Long specification	Multi-pole surge voltage arrester according to the requirements of Class I acc. to IEC 50539-11. Consisting of VO material, the arrester provides overvoltage protection in applications acc. to IEC 50539-12 in unearthed PV systems. The WEMID VO arrester is installed in the vicinity of the equipment that needs protection, in a commercially available installation/electrical distribution enclosure. With thermal separation device on the varistor. If protection is no longer available, the colour in the display window changes from green to red. Rated voltage: 1000 VDC limp: 12.5 kA In/max (8/20 µs): 20/40 kA, protection level < 2.6 kV, type: Weidmüller VPU I 2+0 PV 1000 V, Order No. 1351470000 or equivalent	Short specification	Class I arrester with limp: 12.5 kA suitable for PV systems. Protection level < 2.6 kV. Type: Weidmüller VPU I 2+0 PV 1000 V/12.5 kA Order no. 1351470000 or equivalent
--------------------	---	---------------------	---

## Approvals

Approvals



ROHS

Conform

Creation date May 27, 2022 10:07:25 AM CEST

Catalogue status 20.05.2022 / We reserve the right to make technical changes.

3

**VPU I 2+0 PV 1000V DC****Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

[info@weidmueller.com](mailto:info@weidmueller.com)**Technical data****Downloads**

Approval/Certificate/Document of Conformity	<a href="#">EAC VPU SERIES</a> <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a>	<a href="http://www.weidmueller.com">www.weidmueller.com</a>
Engineering Data	<a href="#">CAD data – STEP</a>	
Engineering Data	<a href="#">EPLAN, WSCAD</a>	
User Documentation	<a href="#">Beipackzettel / Instruction sheet</a>	
Catalogues	<a href="#">Catalogues in PDF-format</a>	
Brochures		

**VPU I 2+0 PV 1000V DC**

**Weidmüller Interfaces GmbH & Co. KG**

Postfach 3030

32760 Detmold

Tel. +49 5231 14-0

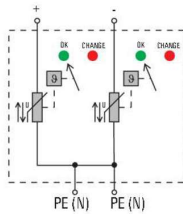
Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com

**Drawings**

**Electric symbol**



Circuit diagram