

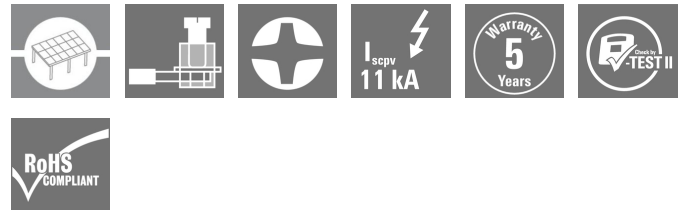
**VPU PV II 3 1000****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image****Type II surge voltage arrester for use in photovoltaic applications**

- Pluggable arrester
- Suitable for protecting DC systems
- High energy absorption with short response time
- Tested in accordance with EN 50539-11
- Suitable for use in accordance with IEC 60364-7-712 / EN 50539-12
- Coded voltage level
- Installation in distribution board
- Thermal protection function

**General ordering data**

Version	Surge voltage arrester, Low voltage
Order No.	<a href="#">2530550000</a>
Type	VPU PV II 3 1000
GTIN (EAN)	4050118540550
Qty.	1 pc(s).
Replacement parts	<a href="#">2530660000</a>

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Catalogue status 06.05.2022 / We reserve the right to make technical changes.

## VPU PV II 3 1000

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## Technical data

## Dimensions and weights

Depth	70 mm	Depth (inches)	2.756 inch
Height	96 mm	Height (inches)	3.78 inch
Width	54 mm	Width (inches)	2.126 inch
Mounting dimension - height	75 mm	Net weight	386 g

## Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...85 °C
Humidity	5 - 95% rel. humidity		

## Rated data UL

Certificate No. (UR)	E354261	Ambient temperature (operational), max. 85 °C	
Rated Voltage $U_N$	1,100 V	SCCR	50 kA
$I_n$	20 kA	Category	SPD TYPE 1CA
Rated current (UL)	1,100 V	Ambient temperature (operational), min. -40 °C	
Certificate No. (cURus)	E354261	VPR ( DC+/DC-)	2,500 V
VPR ( DC-/G)	2,500 V	Voltage type	DC

## General data

Colour	black, orange	Design	Installation housing; 3TE, 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	auxiliary contact	No

## Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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## Photovoltaic technical data

Discharge current $I_n$ (8/20 μs)	20 kA	Discharge current, max. (8/20 μs)	40 kA
Operating height in the grounded PV system	≤ 2000 m	Operating height in ungrounded PV system	< 4,000 m, see operating instructions
PV system voltage, max. $U_{cpv}$	1,100 V	Protection level $U_p$ (+/-, -/PE, +/-PE)	≤ 3.8 kV
Requirements class	Type II	Short-circuit current $I_{SCPV}$	11,000 A
Standards	EN 50539-11, UL 1449	Total discharge current $I_{total}$ ( 8/20μs)	50 kA

## Rated data IEC / EN

Discharge current, max. (8/20 μs)	40 kA	Leakage current at $U_n$	30 μA
Number of poles	3	Rated voltage (DC)	1000 V
Response time	≤ 25 ns	SPD type	T2
Signalling contact	No	Standards	EN 50539-11, UL 1449
Voltage type	DC		

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## Technical data

### Connection data

Stripping length	18 mm	Type of connection	Screw connection
Stripping length, rated connection	18 mm	Tightening torque, min.	2 Nm
Tightening torque, max.	4 Nm	Clamping range, rated connection	16 mm <sup>2</sup>
Clamping range, min.	1.5 mm <sup>2</sup>	Clamping range, max.	35 mm <sup>2</sup>
Wire cross-section, solid, min.	1.5 mm <sup>2</sup>	Wire cross-section, solid, max.	16 mm <sup>2</sup>
Wire connection cross section, finely stranded, min.	1.5 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.	1.5 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), max.	25 mm <sup>2</sup>
Connection cross-section, stranded, min.	1.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	35 mm <sup>2</sup>

### Ratings IECEx/ATEX/cUL

Certificate no. (cULus) E354261

### Guarantee

Time interval 5 years

### 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

### Approvals

Approvals



ROHS Conform

### Downloads

Approval/Certificate/Document of Conformity	<a href="#">EAC VPU SERIES</a> <a href="#">CE_VPU_PV</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Tender specification	<a href="#">Ausschreibungstext DE</a> <a href="#">Tenderspecification EN</a>
User Documentation	<a href="#">Beipackzettel / Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

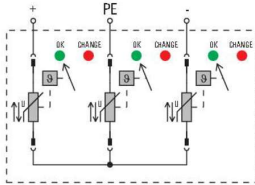
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**Drawings**

**Electric symbol**



Circuit diagram