

## VPU PV I+II O 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, Accessories, Spare arrester
Order No.	<a href="#">253060000</a>
Type	VPU PV I+II O 1000
GTIN (EAN)	4050118540819
Qty.	9 pc(s).

Creation date May 19, 2022 11:59:25 AM CEST

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

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## Technical data

### Dimensions and weights

Depth	79 mm	Depth (inches)	3.11 inch
Height	45 mm	Height (inches)	1.772 inch
Width	18 mm	Width (inches)	0.709 inch
Net weight	10.778 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 A	Ambient temperature (operational), min. -40 °C	
Certificate No. (cURus)	E354261	Voltage type	DC

### General data

Colour	orange	Operating altitude	< 4,000 m, see operating instructions
Optical function display	green = OK; red = arrester is defective - replace	Protection degree	IP20
UL 94 flammability rating	V-0	Version	Spare arrester

### 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 $\mu$ s)	20 kA	Discharge current, max. (8/20 $\mu$ s)	40 kA
Lightning test current $I_{imp}$ (10/350 $\mu$ s)	6.25 kA	PV system voltage, max. $U_{cpv}$	1,100 V
Protection level $U_p$ (+/-, -/PE, +/PE)	$\leq 3.8$ kV	Protection level $U_p$ (+/-)	$\leq 3.8$ kV
Protection level $U_p$ (+/PE)	$\leq 3.8$ kV	Protection level $U_p$ (-/PE)	$\leq 3.8$ kV
Requirements class	Type I/II	Short-circuit current $I_{SCPV}$	11,000 A
Standards	EN 50539-11, UL 1449	Total discharge current $I_{total}$ (8/20 $\mu$ s)	50 kA
Total discharge current $I_{total}$ (10/350 $\mu$ s)	12.5 kA		

### Rated data IEC / EN

Discharge current, max. (8/20 $\mu$ s)	40 kA	Leakage current at $U_n$	30 $\mu$ A
Lightning test current $I_{imp}$ (10/350 $\mu$ s)	6.25 kA	Number of poles	1
Response time	$\leq 25$ ns	SPD type	T1, T2
Standards	EN 50539-11, UL 1449	Voltage type	DC

### Connection data

Type of connection	pluggable
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### Ratings IECEx/ATEX/cUL

Certificate no. (cULus)	E354261
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**Data sheet**

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**Technical data**

**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>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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Drawings

Electric symbol

