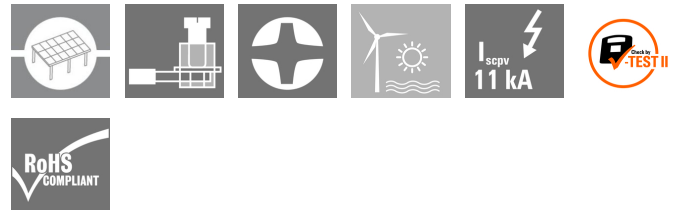


## VPU series VPU PV II 3 1000

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
 Fax: +49 5231 14-292083  
 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

Type	VPU PV II 3 1000
Order No.	<a href="#">2530550000</a>
Version	Surge voltage arrester, Low voltage, 1100 V, 40 kA
GTIN (EAN)	4050118540550
Qty.	1 pc(s).

Creation date June 1, 2020 11:48:45 AM CEST

Catalogue status 15.05.2020 / We reserve the right to make technical changes.

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**Technical data**
**Dimensions and weights**

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

**Temperatures**

Humidity	5 - 95% rel. humidity	Operating temperature, max.	70 °C
Operating temperature, min.	-40 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-40 °C...70 °C
Storage temperature	-40 °C...85 °C		

**Probability of failure**

MTBF	45 Years
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**Rated data UL**

Voltage type	DC	VPR ( DC+/DC-)	2,500 V
VPR ( DC-/G)	2,500 V	Certificate No. (cURus)	E354261
Certificate No. (UR)	E354261	Ambient temperature (operational), min.	-40 °C
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

**General data**

Colour	black, orange	Design	Installation housing; 3TE, Insta IP 20
Optical function display	green = OK; red = arrester is defective - replace	Protection degree	IP20
Rail	TS 35	UL 94 flammability rating	V-0

**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
Operating height in the grounded PV system	$\leq 2000$ m	Operating height in ungrounded PV system	< 4,000 m, see operating instructions
PV system voltage, max. $U_{cpv}$	1,100 V	Protection level $U_p$ mode (+/-, -/PE, +/- PE)	$\leq 3.8$ kV
Requirements class	Type II	Short-circuit current $I_{SCPV}$	11,000 A
Standards	EN 50539-11:2013+A1:2014, UL 1449 Ed.4	Standby power consumption $P_C$	< 0.2 W
Total discharge current $I_{total}$ ( 8/20 $\mu$ s)	50 kA		

## Data sheet

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## Technical data

### Connection data

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>		

### Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
eClass 9.0	27-13-08-05	eClass 9.1	27-13-08-05
eClass 10.0	27-13-08-05	UNSPSC	30-21-19-21

### Approvals

Approvals



ROHS

Conform

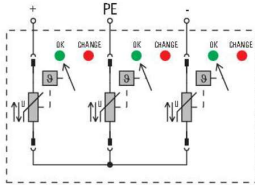
### Downloads

Approval/Certificate/Document of Conformity	<a href="#">EAC VPU SERIES</a> <a href="#">CE_VPU_PV</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Manual</a>

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**Electric symbol**



Circuit diagram