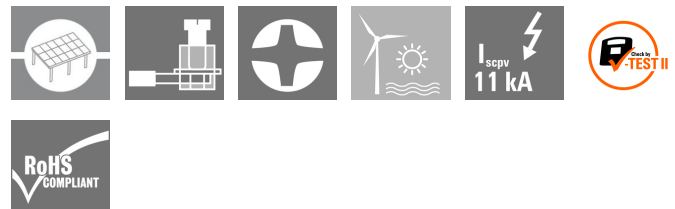


## VPU series VPU PV II 3 1000

**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 May 2, 2020 7:06:19 AM CEST

Catalogue status 17.04.2020 / We reserve the right to make technical changes.

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**VPU PV II 3 1000**

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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

### VPU series VPU PV II 3 1000

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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

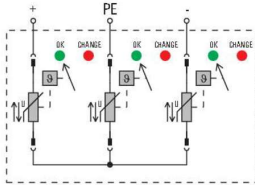
Approval/Certificate/Document of Conformity	<a href="#">EAC VPU SERIES</a> <a href="#">CE_VPU_PV</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Manual</a>

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**Electric symbol**

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Circuit diagram

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## Accessories

### VPU series accessories



Versatile accessories round off the surge protection range. E.g. the all-purpose measuring device V-TEST, which is used to check the function of pluggable arresters such as VSPC.

### General ordering data

Type	PLUG VPU	Version
Order No.	<a href="#">1402570000</a>	VPU series, Accessories
GTIN (EAN)	4050118204360	
Qty.	10 pc(s).	

### VPU PV I II Spare Arrester



#### Type II surge voltage arrester for use in photovoltaic applications

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- 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 0 1000	Version
Order No.	<a href="#">2530660000</a>	Surge voltage arrester, Low voltage, Accessories, 1100 V, Spare arrester, 40 kA
GTIN (EAN)	4050118540871	
Qty.	1 pc(s).	

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**Accessories**

**Blank**



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from the following manufacturers:

- Siemens
- Télémecanique
- ABB
- Beckhoff
- Lumberg
- Tags for all-purpose usage; self-adhesive or clip-on tags, depending on the type

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

**For custom printing:** Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

Please note that these markers are not intended for printing with the SpeedMarking laser.

**General ordering data**

Type	ESG 6/15 K MC NE WS	Version
Order No.	<a href="#">1880100000</a>	ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive
GTIN (EAN)	4032248478781	
Qty.	200 pc(s).	

**Data sheet****VPU series**  
**VPU PV II 3 1000****Weidmüller Interface GmbH & Co. KG**  
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www.weidmueller.com**Accessories****Crosshead screwdriver Phillips**

VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

**General ordering data**

Type	SDIK PH1	Version
Order No.	<a href="#">9008570000</a>	Screwdriver, Blade length: 80 mm
GTIN (EAN)	4032248056569	
Qty.	1 pc(s).	