

**VPU PV II 3 1000**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com



**General ordering data**

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

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## Technical data

## Approvals

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (cURus)	E3542610000

## Dimensions and weights

Depth	70 mm	Depth (inches)	2.7559 inch
Height	96 mm	Height (inches)	3.7795 inch
Width	54 mm	Width (inches)	2.126 inch
Mounting dimension - height	75 mm	Net weight	332.64 g

## Temperatures

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

## Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

## Rated data UL

Ambient temperature (operational), max. 85 °C	Rated Voltage UN	1100 V	
SCCR	In	20 kA	
Category	SPD TYPE 1CA	Ambient temperature (operational), min. -40 °C	
Certificate No. (cURus)	E3542610000	VPR ( DC+/DC-)	2500 V
VPR ( DC-/G)	2500 V	Voltage type	DC

## General data

Optical function display	green = OK; red = arrester is defective - replace	Version	Surge protection II
Design	Installation housing; 3TE, Insta IP 20	UL 94 flammability rating	V-0
Colour	black, orange	Protection degree	IP20
Mounting rail	TS 35	Operating altitude	≤ 4000 m

## Insulation coordination acc. to EN 50178

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

Standards	EN 61643-31, EN 50539-11, UL 1449	Protection level Up (+/-, -/PE, +/-PE)	≤ 3.8 kV
Operating height in ungrounded PV system	≤ 4000 m	Short-circuit current ISCPV	11000 A
Total discharge current I <sub>total</sub> ( 8/20μs)	50 kA	Discharge current I <sub>n</sub> (8/20 μs)	20 kA
Requirements class	Type II	Operating height in the grounded PV system	≤ 2000 m

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## Technical data

PV system voltage, max. Ucpv 1100 V

## Rated data IEC / EN

Number of poles	3	Leakage current at Un	30 µA
Signalling contact	No	Rated voltage (DC)	1000 V
Voltage type	DC	Response time / fallback time	≤ 25 ns
Standards	EN 61643-31, EN 50539-11, UL 1449	Requirements class, acc. to EN 61643-11	T2
Max. continuous voltage, Uc (DC)	1000 V	Discharge current In (8/20µs) wire-PE	20 kA
Discharge current I <sub>max</sub> (8/20µs) wire-PE	40 kA	SPD type	T2
Integrated back-up fuse	No		

## Connection data

Stripping length	18 mm	Type of connection	Screw connection
Stripping length, rated connection	18 mm	Tightening torque, min.	3 Nm
Tightening torque, max.	4.5 Nm	Clamping range, rated connection	6 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.	1.5 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>
Connection cross-section, stranded, min.	1.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	35 mm <sup>2</sup>

## Electrical data

Voltage type DC

## General data

Number of poles	3	Protection degree	IP20
Colour	black, orange		

## Guarantee

Time interval 5 years

## Classifications

ETIM 8.0	EC000941	ETIM 9.0	EC000941
ETIM 10.0	EC000941	ECLASS 14.0	27-17-14-02
ECLASS 15.0	27-17-14-02		

**Drawings**

**Electric symbol**



Circuit diagram

## 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 X 80	Version	
Order No.	<a href="#">2749890000</a>	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1	
GTIN (EAN)	4050118897098		
Qty.	1 ST		

### Slotted screwdriver



VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

#### General ordering data

Type	SDIS 1.0X5.5X125	Version	
Order No.	<a href="#">2749850000</a>	Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade thickness (A): 1 mm	
GTIN (EAN)	4050118897050		
Qty.	1 ST		

### 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 manufacturers like Siemens, ABB, Beckhoff etc.

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.

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## Accessories

### 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 ST		

### VPU Series



Extensive accessories round off the product range

### General ordering data

Type	VPU PV EXTENDER	Version	
Order No.	<a href="#">3123510000</a>		
GTIN (EAN)	4099987270199		
Qty.	9 ST		

### Spare Arrester



### General ordering data

Type	VPU PV II 0 1000	Version	
Order No.	<a href="#">2530660000</a>	Surge voltage arrester, Low voltage, Accessories, Spare arrester	
GTIN (EAN)	4050118540871		
Qty.	9 ST		

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## Accessories

### VPU Series



Extensive accessories round off the product range

### General ordering data

Type	VPU LOCKING CLIP S	Version	
Order No.	<a href="#">2735080000</a>		
GTIN (EAN)	4050118826050		
Qty.	10 ST		