

**VPU PV I+II 3 R 1500****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****General ordering data**

Version	Surge voltage arrester, Low voltage, with remote contact
Order No.	<a href="#">2530590000</a>
Type	VPU PV I+II 3 R 1500
GTIN (EAN)	4050118540802
Qty.	1 pc(s).
Replacement parts	<a href="#">2530570000</a> <a href="#">2534330000</a> <a href="#">1402570000</a>

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## Technical data

## Dimensions and weights

Depth	86 mm	Depth (inches)	3.386 inch
Height	102 mm	Height (inches)	4.016 inch
Width	54 mm	Width (inches)	2.126 inch
Net weight	480 g		

## Temperatures

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

## Rated data UL

Ambient temperature (operational), max. 85 °C		Rated Voltage $U_N$	1,500 V
SCCR	65 kA	$I_n$	20 kA
Category	SPD TYPE 1CA	Ambient temperature (operational), min. -40 °C	
Certificate No. (cURus)	E354261	VPR (DC+/DC-)	4,000 V
Voltage type	DC		

## Connection data, remote alert

Connection type	PUSH IN	Cross-section for connected wire, solid core, max.	1.5 mm <sup>2</sup>
Cross-section for connected wire, solid core, min.	0.25 mm <sup>2</sup>	Stripping length	12 mm

## General data

Colour	black, orange	Design	Installation housing; 3TE, Insta IP 20
Operating altitude	< 4,000 m, see operating instructions	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20	Rail	TS 35
UL 94 flammability rating	V-0	Version	with remote contact

## 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)	30 kA
Lightning test current $I_{imp}$ (10/350 $\mu$ s)	5 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. $U_{cpv}$	1,500 V
Protection level $U_p$ (+/-, -/PE, +/-PE)	$\leq 5,0$ kV	Requirements class	Type I/II
Short-circuit current $I_{scpv}$	11,000 A	Standards	EN 61643-31, EN 50539-11, UL 1449
Total discharge current $I_{total}$ (8/20 $\mu$ s)	40 kA	Total discharge current $I_{total}$ (10/350 $\mu$ s)	10 kA

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## Rated data IEC / EN

Discharge current, max. (8/20 µs)	30 kA	Leakage current at $U_n$	30 µA
Lightning test current $I_{imp}$ (10/350 µs)	5 kA	Number of poles	3
Rated voltage (DC)	1500 V	Response time	≤ 25 ns
SPD type	T1, T2	Signalling contact	250 V 1A 1CO, 125 V AC / 1 A, 48 V CC / 0.5 A
Standards	EN 61643-31, EN 50539-11, UL 1449	Voltage type	DC

## 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.	4.5 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>
Connection cross-section, stranded, min.	1.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	35 mm <sup>2</sup>

## Guarantee

Time interval	5 years
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## Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	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	ECLASS 13.0	27-17-90-90

## Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E354261

## Downloads

Approval/Certificate/Document of Conformity	<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

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[www.weidmueller.com](http://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 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 pc(s).	

**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
GTIN (EAN)	4050118897050	thickness (A): 1 mm
Qty.	1 pc(s).	

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[www.weidmueller.com](http://www.weidmueller.com)**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 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.

**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).	

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[www.weidmueller.com](http://www.weidmueller.com)**Replacement parts****Spare Arrester****General ordering data**

Type	VPU PV I+II O 1500	Version
Order No.	<a href="#">2530570000</a>	Surge voltage arrester, Low voltage, Accessories, Spare arrester
GTIN (EAN)	4050118540482	
Qty.	9 pc(s).	
Type	VPU PV I+II OM 1500	Version
Order No.	<a href="#">2534330000</a>	Surge voltage arrester, Low voltage, Accessories, Spare arrester
GTIN (EAN)	4050118546002	
Qty.	9 pc(s).	

**VPU Series**

Extensive accessories round off the product range

**General ordering data**

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