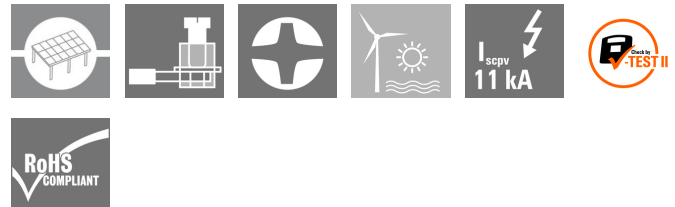


VPU series

VPU PV I+II 3 R 1500

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 I+II 3 R 1500
Order No.	2530590000
Version	Surge voltage arrester, Low voltage, 1500 V, with remote contact, 30 kA, I_{imp} : 5 kA
GTIN (EAN)	4050118540802
Qty.	1 pc(s).

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Technical data
Dimensions and weights

Width	54 mm	Width (inches)	2.126 inch
Height	102 mm	Height (inches)	4.016 inch
Depth	86 mm	Depth (inches)	3.386 inch
Net weight	480 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-)	4,000 V
VPR (DC-/G)	4,000 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	1,500 V
SCCR	65 kA	I_n	20 kA
Category	SPD TYPE 1CA	Rated current (UL)	1,500 V

Connection data, remote alert

Connection type	PUSH IN	Stripping length	8 mm
Cross-section for connected wire, solid core, min.	0.14 mm ²	Cross-section for connected wire, solid core, max.	1.5 mm ²

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
Version	with remote contact		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	III
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Technical data

Photovoltaic technical data

Discharge current I_n (8/20 μ s)	20 kA	Discharge current, max. (8/20 μ s)	30 kA
Lightning test current I_{imp} (10/350 μ s)	5 kA	Operating height in the grounded PV system	≤ 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 mode (+/-, -/PE, +/- PE)	$\leq 5,0$ kV	Requirements class	Type I/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 μ s)	40 kA
Total discharge current I_{total} (10/350 μ s)	10 kA		

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 ²	Clamping range, min.	1.5 mm ²
Clamping range, max.	35 mm ²	Wire cross-section, solid, min.	1.5 mm ²
Wire cross-section, solid, max.	16 mm ²	Wire connection cross-section, finely stranded, min.	1.5 mm ²
Wire connection cross section, finely stranded, max.	25 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	1.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	25 mm ²	Connection cross-section, stranded, min.	1.5 mm ²
Connection cross-section, stranded, max.	35 mm ²		

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

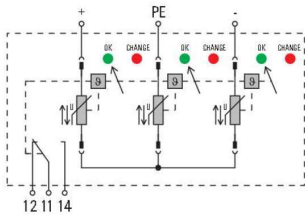
Approval/Certificate/Document of Conformity	EAC_VPU_SERIES CE_VPU_PV
Engineering Data	STEP
User Documentation	Manual

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Drawings

Electric symbol



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.	1402570000	VPU series, Accessories
GTIN (EAN)	4050118204360	
Qty.	10 pc(s).	

VPU PV I II Spare Arrester



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- 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 I+II 0 1500	Version
Order No.	2530570000	Surge voltage arrester, Low voltage, Accessories, 1500 V, Spare arrester, 30 kA, I _{imp} : 5 kA
GTIN (EAN)	4050118540482	
Qty.	1 pc(s).	
Type	VPU PV I+II 0M 1500	Version
Order No.	2534330000	Surge voltage arrester, Low voltage, Accessories, 1500 V, Spare arrester, 30 kA, I _{imp} : 5 kA
GTIN (EAN)	4050118546002	
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.	1880100000	ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive
GTIN (EAN)	4032248478781	
Qty.	200 pc(s).	

Data sheet**VPU series**
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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.	9008570000	Screwdriver, Blade length: 80 mm
GTIN (EAN)	4032248056569	
Qty.	1 pc(s).	