

## VPU PV I+II 3 R 1500

**Weidmüller Interface GmbH & Co. KG**

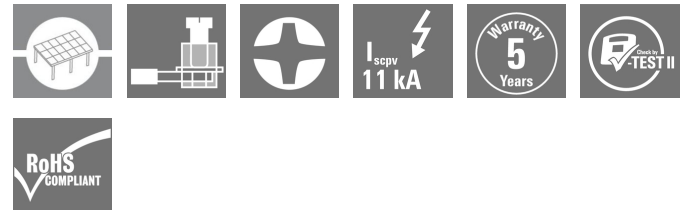
Klingenbergstraße 26

D-32758 Detmold

Germany

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

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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Catalogue status 03.06.2022 / We reserve the right to make technical changes.

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

### Rated data UL

Certificate No. (UR)	E354261	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	Ambient temperature (operational), min. -40 °C	
Certificate No. (cURus)	E354261	VPR ( DC+/DC-)	4,000 V
VPR ( DC-/G)	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	≤ 2000 m	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 μs)	20 kA	Discharge current, max. (8/20 μs)	30 kA
Lightning test current $I_{imp}$ (10/350 μs)	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 $U_p$ (+/-, -/PE, +/-PE)	≤ 5,0 kV	Requirements class	Type I/II
Short-circuit current $I_{SCPV}$	11,000 A	Standards	EN 50539-11, UL 1449
Total discharge current $I_{total}$ ( 8/20μs)	40 kA	Total discharge current $I_{total}$ (10/350μs)	10 kA

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## Technical data

### Rated data IEC / EN

Discharge current, max. (8/20 $\mu$ s)	30 kA	Leakage current at $U_n$	30 $\mu$ A
Lightning test current $I_{imp}$ (10/350 $\mu$ s)	5 kA	Number of poles	3
Rated voltage (DC)	1500 V	Response time	$\leq 25$ ns
SPD type	T1, T2	Signalling contact	250 V 1A 1CO, 125 V AC / 1 A, 48 V CC / 0.5 A
Standards	EN 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>
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>

### Ratings IECEx/ATEX/cUL

Certificate no. (cULus)	E354261
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### Guarantee

Time interval	5 years
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### Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	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

### Approvals

Approvals



ROHS	Conform
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### Downloads

Approval/Certificate/Document of Conformity	<a href="#">EAC VPU SERIES</a> <a href="#">CE_VPU_PV</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">EPLAN</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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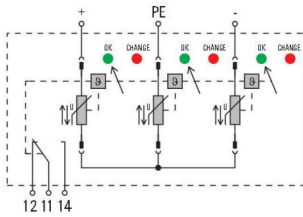
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Drawings

Electric symbol



Circuit diagram