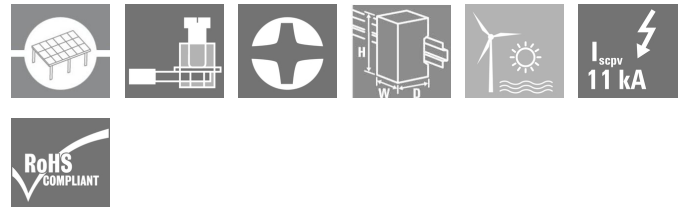


## VPU series

### VPU PV I+II 3 R 1500

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 16  
 D-32758 Detmold  
 Germany  
 Fon: +49 5231 14-0  
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### 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.	<a href="#">2530590000</a>
Version	Surge voltage arrester, Low voltage, 1500 V, with remote contact, 30 kA, I <sub>imp</sub> : 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), 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 <sup>2</sup>	Cross-section for connected wire, solid core, max.	1.5 mm <sup>2</sup>

**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 $\mu$ 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 $U_p$ mode (+/-, -/PE, +/- PE)	$\leq 5,0$ kV	Requirements class	Type I/II
Short-circuit current $I_{SCP}$	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)	40 kA
Total discharge current $I_{total}$ (10/350 $\mu$ s)	10 kA		

**Connection data**

Type of connection	Screw connection	Stripping length, rated connection	15 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 3.0	EC000941	ETIM 5.0	EC000510
ETIM 6.0	EC000941	UNSPSC	30-21-19-21
eClass 5.1	27-13-08-01	eClass 6.2	27-13-08-02
eClass 7.1	27-14-02-01	eClass 8.1	27-14-02-01
eClass 9.0	27-13-08-05	eClass 9.1	27-13-08-05

**Approvals**

Approvals



ROHS

Conform

**Downloads**

Approval/Certificate/Document of Conformity	<a href="#">CE_VPU_PV</a>
Engineering Data	<a href="#">STEP</a>
User Documentation	<a href="#">Operating instruction</a>

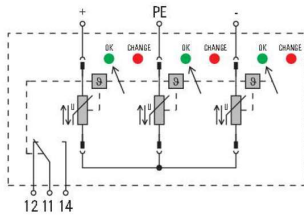
**Data sheet**

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**Drawings**

**Electric symbol**



Circuit diagram