

VPU PV II 3 R 1000

Weidmüller Interface GmbH & Co. KG

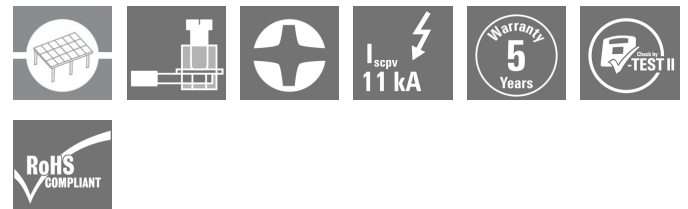
Klingenbergstraße 26

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.	2530180000
Type	VPU PV II 3 R 1000
GTIN (EAN)	4050118540512
Qty.	1 pc(s).
Replacement parts	2530660000 1402570000

Creation date August 26, 2021 9:26:15 AM CEST

Catalogue status 20.08.2021 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Depth	70 mm	Depth (inches)	2.756 inch
Height	102 mm	Height (inches)	4.016 inch
Width	54 mm	Width (inches)	2.126 inch
Mounting dimension - height	75 mm	Net weight	386 g

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-40 °C...70 °C
Humidity	5 - 95% rel. humidity		

Rated data UL

Certificate No. (UR)	E354261	Ambient temperature (operational), max.	85 °C
Rated Voltage U_N	1,100 V	SCCR	50 kA
I_n	20 kA	Category	SPD TYPE 1CA
Rated current (UL)	1,100 V	Ambient temperature (operational), min.	-40 °C
Certificate No. (cURus)	E354261	VPR (DC+/DC-)	2,500 V
VPR (DC-/G)	2,500 V	Voltage type	DC

Connection data, remote alert

Connection type	PUSH IN	Cross-section for connected wire, solid core, max.	1.5 mm ²
Cross-section for connected wire, solid core, min.	0.14 mm ²	Stripping length	8 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)	40 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}	1,100 V	Protection level U_p (+/-, -/PE, +/-PE)	≤ 3.8 kV
Requirements class	Type II	Short-circuit current I_{SCPV}	11,000 A
Standards	EN 50539-11:2013+A1:2014, UL 1449 Ed.4	Total discharge current I_{total} (8/20 μs)	50 kA

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Technical data

Rated data IEC / EN

Discharge current I_{max} (8/20 μ s) wire-PE	40 kA	Discharge current, max. (8/20 μ s)	40 kA
Leakage current at U_n	30 μ A	Number of poles	3
Rated voltage (DC)	1000 V	Response time	\leq 25 ns
SPD type		Signalling contact	250 V 1A 1CO, 125 V AC / 1 A, 48 V CC / 0.5 A, 24 V DC / 0.5 A
Standards	T2 EN 50539-11:2013+A1:2014, UL 1449 Ed.4	Voltage type	DC

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		

Ratings IECEx/ATEX/cUL

Certificate no. (cULus) E354261

Guarantee

Time interval 5 years

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		

Approvals

Approvals



ROHS	Conform
UL File Number Search	E354261

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Technical data**Downloads**

Approval/Certificate/Document of Conformity	EAC VPU SERIES CE VPU_PV
Engineering Data	STEP
Tender specification	Ausschreibungstext DE Tenderspecification EN
User Documentation	Manual
Catalogues	Catalogues in PDF-format

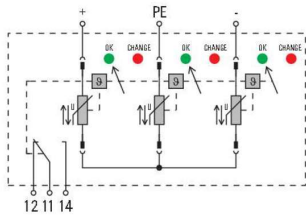
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Drawings

Electric symbol



Circuit diagram