

VPU I 2+0 PV 600V DC**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Similar to illustration

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, 600 V, without telecomm. contact
Order No.	1351520000
Type	VPU I 2+0 PV 600V DC
GTIN (EAN)	4050118158601
Qty.	1 pc(s).
Delivery status	Discontinued
Available until	2018-12-31

Creation date March 23, 2021 5:41:34 PM CET

Catalogue status 12.03.2021 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Depth	69 mm	Depth (inches)	2.717 inch
Height	94 mm	Height (inches)	3.701 inch
Mounting dimension - height	75 mm	Net weight	486 g
Width	71.2 mm	Width (inches)	2.803 inch

Temperatures

Storage temperature	-40 °C...80 °C
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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	Design	Installation housing; 4TE, 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	without telecomm. contact		

Insulation coordination acc. to EN 50178

Pollution severity	2	Surge voltage category	IV
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Photovoltaic technical data

Conditions and requirements	EN 50539-11	Maximum continuous operating voltage UCPV mode +/-, -/PE, +/-PE	600 V DC
PV system voltage, max. U _{cpv}	600 V	Protection level U _p mode (+/-)	≤ 3.6 kV
Protection level U _p mode (-/PE)	≤ 1.8 kV	Protection level U _p mode(+/-PE)	≤ 1.8 kV
Short-circuit current I _{scpv}	200 A	Standards	EN 50539-11

Rated data IEC / EN

Discharge current I _{max} (8/20μs) wire-PE	40 kA	Discharge current I _n (8/20μs) wire-PE	40 kA
Leakage current at U _n	100 μA	Lightning test current I _{imp} (10/350 μs) (L-PE)	12.5 kA
Max. continuous voltage, U _c (DC)	600 V	Number of poles	4
PV voltage, acc. to IEC 60364-7-712	< 600 V	Rated voltage (DC)	600 V
Response time	≤ 25 ns	SPD type	T1, T2
Signalling contact	No	Standards	EN 50539-11
Voltage type	DC		

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Connection data

Type of connection	Screw connection	Stripping length, rated connection	15 mm
Tightening torque, min.	2 Nm	Tightening torque, max.	3 Nm
Clamping range, rated connection	16 mm ²	Clamping range, min.	4 mm ²
Clamping range, max.	35 mm ²	Wire cross-section, solid, min.	2.5 mm ²
Wire cross-section, solid, max.	16 mm ²	Wire connection cross section, finely stranded, min.	2.5 mm ²
Wire connection cross section, finely stranded, max.	25 mm ²	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm ²
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	50 mm ²	Connection cross-section, stranded, min.	2.5 mm ²
Connection cross-section, stranded, max.	50 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	ECLASS 11.0	27-13-08-05

Tender specification sheets

Long specification	Multi-pole surge voltage arrester according to the requirements of Class I acc. to IEC 50539-11. Consisting of V0 material, the arrester provides overvoltage protection in applications acc. to IEC 50539-12 in unearthed PV systems. The WEMID V0 arrester is installed in the vicinity of the equipment that needs protection, in a commercially available installation/electrical distribution enclosure. With thermal separation device on the varistor. If protection is no longer available, the colour in the display window changes from green to red. Rated voltage: 600 VDC limp: 12.5 kA In/max (8/20 µs): 20/40 kA protection level < 1.8 kV Type: Weidmüller VPU I 2+0 PV 600 V Order No. 13515200000 or equivalent	Short specification	Class I arrester with limp: 12.5 kA suitable for PV systems. Protection level < 1.8 kV. Type: Weidmüller VPU I 2+0 PV 600 V/12.5 kA Order no. 13515200000 or equivalent
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Approvals

Approvals



ROHS

Conform

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Technical data

Downloads

Approval/Certificate/Document of Conformity	CE PAPER Declaration of Conformity
Engineering Data	STEP
Engineering Data	EPLAN, WSCAD
User Documentation	Instruction sheet

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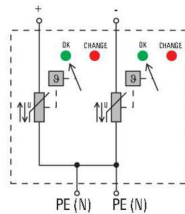
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Drawings

Electric symbol



Circuit diagram