

**VPU II 3 R PV 1500V DC**

**Weidmüller Interface GmbH & Co. KG**  
 Klingenbergstraße 26  
 D-32758 Detmold  
 Germany

www.weidmueller.com



**General ordering data**

Version	Surge voltage arrester, Low voltage, with remote contact
Order No.	<a href="#">1351530000</a>
Type	VPU II 3 R PV 1500V DC
GTIN (EAN)	4050118158595
Qty.	1 items
Delivery status	Discontinued
Available until	2022-03-30T00:00:00+02:00
Alternative product	<a href="#">VPU PV II 3 R 1500</a>

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## Technical data

## Approvals

Approvals



ROHS Conform

## Dimensions and weights

Depth	69 mm	Depth (inches)	2.7165 inch
Height	106 mm	Height (inches)	4.1732 inch
Width	53.4 mm	Width (inches)	2.1024 inch
Mounting dimension - height	75 mm	Net weight	411 g

## Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...70 °C
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## Environmental Product Compliance

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

## Connection data, remote alert

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

## General data

Optical function display	green = OK; red = arrester is defective - replace	Version	with remote contact
Design	Installation housing; 3TE, Insta IP 20	UL 94 flammability rating	V-0
Colour	black, orange	Protection degree	IP20
Mounting rail	TS 35	Operating altitude	≤ 2000 m

## Insulation coordination acc. to EN 50178

Surge voltage category	III	Pollution severity	2
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## Photovoltaic technical data

Standards	EN 50539-11	Protection level Up (+/-, -/PE, +/-PE)	≤ 5.2 kV
Short-circuit current ISCPV	200 A	Discharge current In (8/20 μs)	20 kA
Requirements class	Type II	PV system voltage, max. Ucpv	1500 V
Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/-PE	1500 V		

## Rated data IEC / EN

Number of poles	3	Leakage current at Un	100 μA
Signalling contact	250 V 1A 1CO, 125 V AC / 1 A, 48 V CC / 0.5 A	Rated voltage (DC)	1500 V

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PV voltage, acc. to IEC 60364-7-712	< 1500 V	Voltage type	DC
Response time / fallback time	≤ 25 ns	Standards	EN 50539-11
Max. continuous voltage, U <sub>c</sub> (DC)	1500 V	Discharge current I <sub>n</sub> (8/20μs) wire-PE	12.5 kA
Discharge current I <sub>max</sub> (8/20μs) wire-PE	25 kA	SPD type	T2
Integrated back-up fuse	No		

## Connection data

Stripping length	15 mm	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 <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.	50 mm <sup>2</sup>
Connection cross-section, stranded, min.	1.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	50 mm <sup>2</sup>

## Electrical data

Voltage type	DC
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## General data

Number of poles	3	Protection degree	IP20
Colour	black, orange		

## Classifications

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	EC000941
ETIM 10.0	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
ECLASS 13.0	27-17-90-90	ECLASS 14.0	27-17-90-90
ECLASS 15.0	27-17-90-90		

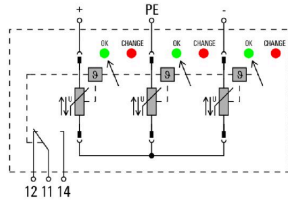
## Tender specification sheets

Long specification	Multi-pole surge voltage arrester according to the requirements of Class II acc. to IEC 50539-11. Consisting of VO material, the arrester serves as overvoltage protection and is used in applications according to IEC 50539-12 in unearthed PV systems. The use of a high-performance varistor consisting of VO material meets the inspection requirements for Class II surge protection systems on the basis of the standards. The arrester is installed in the vicinity of the equipment that	Short specification	Class II arrester with I <sub>n</sub> /I <sub>max</sub> : 12.5/25 kA suitable for PV systems. Protection level < 5.2 kV. With remote alert Type: Weidmüller VPU II 3 R PV 1500 V/25 kA Order no. 1351530000 or equivalent
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## Technical data

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. The functional state is also displayed by a voltage-free signalling contact (CO contact). Rated voltage: 1500 VDC  $I_{n}/\max(8/20 \mu\text{s}): 12.5/25$  kA, protection level < 5.2 kV, telecommunication output: contact: 250 V/0.5 A 48 VDC/0.1 A, type: Weidmüller VPU II 3 R PV 1500 V/25 kA, Order No. 135 1530000 or equivalent

Electric symbol



Circuit diagram