

## VPU II 2 R PV 600V DC

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)



### 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="#">1351370000</a>
Type	VPU II 2 R PV 600V DC
GTIN (EAN)	4050118158717
Qty.	1 pc(s).
Replacement parts	<a href="#">1351320000</a> <a href="#">1402570000</a>

Creation date May 19, 2022 11:58:34 AM CEST

Catalogue status 06.05.2022 / We reserve the right to make technical changes.

## VPU II 2 R PV 600V DC

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

### Dimensions and weights

Depth	69 mm	Depth (inches)	2.717 inch
Height	106 mm	Height (inches)	4.173 inch
Width	35.6 mm	Width (inches)	1.402 inch
Mounting dimension - height	75 mm	Net weight	0.304 g

### Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...70 °C
---------------------	----------------	-----------------------	----------------

### 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.	0.14 mm <sup>2</sup>	Stripping length	8 mm

### General data

Colour	black, orange	Design	Installation housing; 2TE, 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
--------------------	---	------------------------	-----

### Photovoltaic technical data

Conditions and requirements	EN 50539-11	Discharge current $I_n$ (8/20 μs)	12.5 kA
Discharge current, max. (8/20 μs)	40 kA	Maximum continuous operating voltage UCPV mode +/-, -/PE, +/-PE	600 V DC
Operating height in the grounded PV system	≤ 2000 m	Operating height in ungrounded PV system	≤ 2000 m
PV system voltage, max. $U_{cpv}$	600 V	Protection level $U_p$ (+/-)	≤ 4.4 kV
Protection level $U_p$ (+/PE)	≤ 2.2 kV	Protection level $U_p$ (-/PE)	≤ 2.2 kV
Requirements class	Type II	Short-circuit current $I_{SCPV}$	200 A
Standards	EN 50539-11	Total discharge current $I_{total}$ (8/20 μs)	40 kA

### Rated data IEC / EN

Discharge current $I_n$ (8/20 μs) wire-PE	20 kA	Discharge current, max. (8/20 μs)	40 kA
Leakage current at $U_n$	30 μA	Max. continuous voltage, $U_c$ (DC)	600 V
Number of poles	2	PV voltage, acc. to IEC 60364-7-712	< 600 V
Rated voltage (DC)	600 V	Response time	≤ 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
	T2		
Standards	EN 50539-11	Voltage type	DC

Creation date May 19, 2022 11:58:34 AM CEST

Catalogue status 06.05.2022 / We reserve the right to make technical changes.

2

## VPU II 2 R PV 600V DC

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)

## Technical data

### 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>

### 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

## VPU II 2 R PV 600V DC

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Tender specification sheets

Long specification	Multi-pole surge voltage arrester according to the requirements of Class II acc. to IEC 50539-11. Consisting of V0 material, the arrester serves as overvoltage protection and is used in applications according to IEC 50539-12. The use of a high-performance varistor 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 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: 600 VDC In/max (8/20 µs): 20/40 kA, protection level < 2.2 kV, telecommunication output: contact: 250 V/0.5 A 48 VDC/0.1 A, type: Weidmüller VPU II 2 R PV 600 V/40 kA, Order No. 1351370000 or equivalent	Short specification
		Class II arrester with In/Imax: 20/40 kA suitable for PV systems. Protection level < 2.2 kV. With remote alert Type: Weidmüller VPU II 2 R PV 600 V/40 kA Order no. 1351370000 or equivalent

## Approvals

Approvals



ROHS

Conform

## Downloads

Approval/Certificate/Document of Conformity	<a href="#">EAC VPU SERIES</a> <a href="#">EU Konformitätserklärung / EU Declaration of Conformity</a>
Engineering Data	<a href="#">CAD data – STEP</a>
Engineering Data	<a href="#">EPLAN, WSCAD</a>
User Documentation	<a href="#">Beipackzettel / Instruction sheet</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>
Brochures	

Creation date May 19, 2022 11:58:34 AM CEST

Catalogue status 06.05.2022 / We reserve the right to make technical changes.

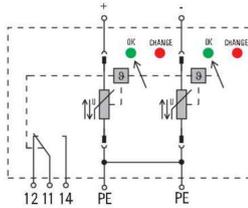
**VPU II 2 R PV 600V DC**

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

[www.weidmueller.com](http://www.weidmueller.com)

**Drawings**

**Electric symbol**



Circuit diagram