

**VPU PV I+II 0 600 E****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image****VPU PV**

The VARITECTOR overvoltage protection series VPU PV I (Type I) and VPU PV II (Type II) protects Photovoltaic systems and their components effective against interference from lightning and surges. Even well below the limits that are specified through the insulation coordination according to EN 60664-3 / DIN VDE 0110-3.

The arresters are designed according to product standard IEC 50539-11 / DIN EN 50539-11 tested and can be used in systems according to the application standard IEC 50539-12 / DIN EN 50539-12 and according to IEC 60364-7-712 "Installation of photovoltaic supply systems" to be installed.

**General ordering data**

Order No.	<a href="#">2857050000</a>
Type	VPU PV I+II 0 600 E
GTIN (EAN)	4064675537410
Qty.	9 pc(s).

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## Technical data

## Dimensions and weights

Depth	57.2 mm	Depth (inches)	2.252 inch
Height	45 mm	Height (inches)	1.772 inch
Width	18 mm	Width (inches)	0.709 inch
Net weight	8.111 g		

## Temperatures

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

## Rated data UL

Category	SPD TYPE 1CA
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## General data

Colour	orange	Design	Insta IP 20
Operating altitude	≤ 4000 m	Optical function display	green = OK; red = arrester is defective - replace
Protection degree	IP20	UL 94 flammability rating	V-0
Version	Spare arrester		

## 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 $\mu$ s)	20 kA	Discharge current, max. (8/20 $\mu$ s)	40 kA
Lightning test current $I_{imp}$ (10/350 $\mu$ s)	6.25 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. $U_{cpv}$	600 V
Protection level $U_p$ (+/-, -/PE, +/PE)	<2800 V	Short-circuit current $I_{SCPv}$	11,000 A
Standards	EN 61643-31, EN 50539-11	Total discharge current $I_{total}$ (8/20 $\mu$ s)	50 kA
Total discharge current $I_{total}$ (10/350 $\mu$ s)	6.25 kA		

## Rated data IEC / EN

Discharge current, max. (8/20 $\mu$ s)	40 kA	Lightning test current $I_{imp}$ (10/350 $\mu$ s)	6.25 kA
Number of poles	1	Rated voltage (DC)	600 V
Response time	≤ 25 ns	SPD type	T1, T2
Signalling contact	No	Standards	EN 61643-31, EN 50539-11
Voltage type	DC		

## Connection data

Type of connection	pluggable	Stripping length, rated connection	18 mm
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>
Connection cross-section, stranded, min.	1.5 mm <sup>2</sup>	Connection cross-section, stranded, max.	35 mm <sup>2</sup>

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Time interval 5 years

**Classifications**

ETIM 6.0	EC000941	ETIM 7.0	EC000941
ETIM 8.0	EC000941	ETIM 9.0	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

**Environmental Product Compliance**

REACH SVHC /

**Approvals**

Approvals



ROHS Conform

**Downloads**

Approval/Certificate/Document of Conformity

[EU Konformitätserklärung / EU Declaration of Conformity](#)

Catalogues

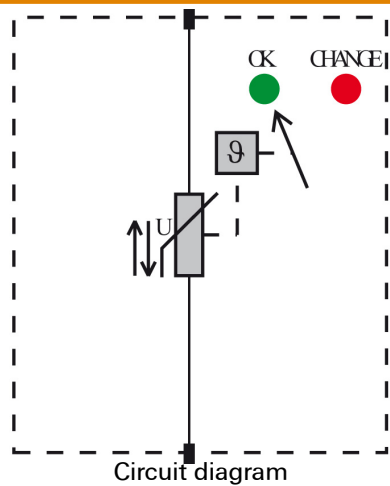
[Catalogues in PDF-format](#)

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[www.weidmueller.com](http://www.weidmueller.com)**Drawings****Electric symbol**

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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****Crosshead screwdriver Phillips**

VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

**General ordering data**

Type	SDIK PH1 X 80	Version
Order No.	<a href="#">2749890000</a>	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1
GTIN (EAN)	4050118897098	
Qty.	1 pc(s).	

**Slotted screwdriver**

VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

**General ordering data**

Type	SDIS 1.0X5.5X125	Version
Order No.	<a href="#">2749850000</a>	Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade
GTIN (EAN)	4050118897050	thickness (A): 1 mm
Qty.	1 pc(s).	