

**VPU series**  
**SPD II 2 R PV 600VDC****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

Fon: +49 5231 14-0

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Similar to illustration

Surge protection for use on the DC side of photovoltaic installations. The SPD II PV series is tested according to UL 1449 ed. 3 (file E354261) as type 4 for use in type 2 applications. This series is assembled according to the respective PV voltage (600 V, 1000 V, 1200 V) and has a nominal discharge current of up to 50 kA (8/20  $\mu$ s) per path. The SPD II has a compact and modular structure and a module width of 17.8 mm per element; it allows rapid and simple exchange of the varistor protection. The SPD PV arrester consists of 2 elements.

**General ordering data**

Delivery status	Discontinued
Available until	2018-05-31
Type	SPD II 2 R PV 600VDC
Order No.	<a href="#">1348540000</a>
Version	Surge protection, Low voltage, with remote contact
GTIN (EAN)	4050118153026
Qty.	1 pc(s).
Alternative product	<a href="#">2530180000</a>

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**Technical data**
**Dimensions and weights**

Width	36 mm	Width (inches)	1.417 inch
Height	100 mm	Height (inches)	3.937 inch
Depth	73.5 mm	Depth (inches)	2.894 inch
Net weight	319 g		

**Temperatures**

Operating temperature, max.	70 °C	Operating temperature, min.	-40 °C
Storage temperature, max.	85 °C	Storage temperature, min.	-40 °C
Operating temperature	-40 °C...70 °C	Storage temperature	-40 °C...85 °C

**Rated data UL**

UL certificate	E-File 354261 Type 2 by UL1449 Ed.3	Test Voltage 39.1 (UL 1449)	600 V
VPR (L/N-PE)	2 kV	MCOV (L/N-PE)	600 Vdc
SCCR	200 kA	I <sub>max</sub>	50 kA
I <sub>n</sub>	20 kA	Category	Typ 2

**Connection data, remote alert**

Connection type	pluggable	Max. torque	0.22 Nm
Stripping length	5 mm	Cross-section for connected wire, solid core, min.	0.5 mm <sup>2</sup>
Cross-section for connected wire, solid core, max.	1.5 mm <sup>2</sup>		

**General data**

Colour	Light Grey	Design	Installation housing; 2TE
Height with TS 35	74 mm	Optical function display	grey = ok, red = arrester is defective, replace it
Protection degree	IP20	Rail	TS 35, TS 35 x 15, TS 35 x 7.5
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, max. (8/20 µs)	50 kA	I <sub>cc</sub>	70 A
Maximum continuous operating voltage UCPV mode +/-, -/PE, +/-PE	550 V DC	Protection level U <sub>p</sub> at I <sub>n</sub> (per module)	2200 V
Protection level U <sub>p</sub> mode (+/-, -/PE, +/-PE)	4000 V	Total discharge current I <sub>total</sub>	100 kA

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**Technical data**
**Rated data IEC / EN**

Discharge current $I_n$ (8/20 $\mu$ s) wire-wire	20 kA	Discharge current, max. (8/20 $\mu$ s)	50 kA
Max. continuous voltage, $U_c$ (DC)	550 V	Number of poles	2
Protection level $U_p$ at $I_N$ (L/N-PE)	$\leq 2.2$ kV	Rated voltage (DC)	600 V
Response time	$\leq 100$ ns	Signalling contact	250 V / 0,5 A, 48 VDC / 0,1 A
Total discharge current $I_{total}$	100 kA	Voltage type	DC

**Connection data**

Wire connection method	Screw connection	Type of connection	Screw connection
Stripping length, rated connection	15 mm	Tightening torque, min.	2.5 Nm
Tightening torque, max.	3 Nm	Clamping range, rated connection	25 mm <sup>2</sup>
Clamping range, min.	4 mm <sup>2</sup>	Clamping range, max.	35 mm <sup>2</sup>
Wire cross-section, solid, min.	4 mm <sup>2</sup>	Wire cross-section, solid, max.	16 mm <sup>2</sup>
Wire connection cross-section, finely stranded, min.	4 mm <sup>2</sup>	Conductor cross-section, flexible, AEH (DIN 46228-1), min.	2.5 mm <sup>2</sup>
Conductor cross-section, flexible, AEH (DIN 46228-1), max.	25 mm <sup>2</sup>	Connection cross-section, stranded, min.	2.5 mm <sup>2</sup>
Connection cross-section, stranded, max.	25 mm <sup>2</sup>		

**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	UNSPSC	30-21-19-21

**Approvals**

ROHS	Conform
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**Downloads**

Engineering Data	<a href="#">WSCAD</a>
User Documentation	<a href="#">Instruction sheet</a>

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# Drawings

## Electric symbol

