

VPU PV I+II 3 1500

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

www.weidmueller.com



General ordering data

Version	Surge voltage arrester, Low voltage, Surge protection I / II
Order No.	2530580000
Type	VPU PV I+II 3 1500
GTIN (EAN)	4050118540499
Qty.	1 items

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Technical data

Approvals

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ROHS	Conform
UL File Number Search	UL Website
Certificate No. (cURus)	E3542610000

Dimensions and weights

Depth	86 mm	Depth (inches)	3.3858 inch
Height	96 mm	Height (inches)	3.7795 inch
Width	54 mm	Width (inches)	2.126 inch
Mounting dimension - height	85 mm	Net weight	470 g

Temperatures

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

Environmental Product Compliance

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

Rated data UL

Ambient temperature (operational), max. 85 °C	Rated Voltage UN	1500 V	
SCCR	In	20 kA	
Category	SPD TYPE 1CA	Ambient temperature (operational), min. -40 °C	
Certificate No. (cURus)	E3542610000	VPR (DC+ /DC-))	4000 V
VPR (DC-/G)	4000 V	Voltage type	DC

General data

Optical function display	green = OK; red = arrester is defective - replace	Version	Surge protection I / II
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	<4,000 m, see operating instructions, ≤ 4000 m

Insulation coordination acc. to EN 50178

Surge voltage category	III	Pollution severity	2
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Photovoltaic technical data

Standards	EN 61643-31, EN 50539-11, UL 1449	Lightning test current Iimp (10/350 μs)	5 kA
Protection level Up (+/- , -/PE , +/PE)	≤ 5,0 kV	Operating height in ungrounded PV system	≤ 4000 m
Short-circuit current ISCPV	11000 A	Total discharge current Itotal (8/20μs)	40 kA
Discharge current In (8/20 μs)	20 kA	Requirements class	Type I/II

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Operating height in the grounded PV system	≤ 2000 m	Total discharge current I _{total} (10/350µs)	10 kA
PV system voltage, max. U _{cpv}	1500 V		

Rated data IEC / EN

Number of poles	3	Leakage current at U _n	30 µA
Signalling contact	No	Rated voltage (DC)	1500 V
Voltage type	DC	Response time / fallback time	≤ 25 ns
Standards	EN 61643-31, EN 50539-11, UL 1449	Lightning test current I _{imp} (10/350 µs)	5 kA
Energy coordination (≤10 m)	Type I, Type II, Type III	Discharge current I _{max} (8/20µs) wire-PE30	kA
SPD type	T1, T2	Integrated back-up fuse	No

Connection data

Stripping length	18 mm	Type of connection	Screw connection
Stripping length, rated connection	18 mm	Tightening torque, min.	3 Nm
Tightening torque, max.	4.5 Nm	Clamping range, rated connection	6 mm ²
Clamping range, min.	1.5 mm ²	Clamping range, max.	35 mm ²
Wire cross-section, solid, min.	1.5 mm ²	Wire cross-section, solid, max.	35 mm ²
Wire connection cross section, finely stranded, min.	1.5 mm ²	Wire connection cross section, finely stranded, max.	35 mm ²
Connection cross-section, stranded, min.	1.5 mm ²	Connection cross-section, stranded, max.	35 mm ²

Electrical data

Voltage type	DC
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General data

Number of poles	3	Protection degree	IP20
Colour	black, orange		

Guarantee

Time interval	5 years
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Classifications

ETIM 8.0	EC001457	ETIM 9.0	EC001457
ETIM 10.0	EC001457	ECLASS 14.0	27-17-14-03
ECLASS 15.0	27-17-14-03		

Electric symbol



Circuit diagram