



## VPU PV I+II OM 1000

Weidmüller Interface GmbH &amp; Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

## Technical data

## Approvals

Approvals



ROHS Conform

UL File Number Search [UL Website](#)

Certificate No. (cURus) E354261

## Dimensions and weights

Depth	73.5 mm	Depth (inches)	2.8937 inch
Height	45 mm	Height (inches)	1.7716 inch
Width	18 mm	Width (inches)	0.7087 inch
Net weight	65 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	550 V
SCCR	In	20 kA
Category	Ambient temperature (operational), min. -40 °C	
Certificate No. (cURus)	VPR ( DC+/DC-)	2500 V
Voltage type	DC	

## General data

Optical function display	green = OK; red = arrester is defective - replace	Version	Surge protection I / II, Spare arrester
Design	Installation housing; 1TE	UL 94 flammability rating	V-0
Colour	orange	Protection degree	IP20
Operating altitude	≤ 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)	6.25 kA
Protection level Up (+/-, -/PE, +/-PE)	≤ 3.8 kV	Short-circuit current ISCPV	11000 A
Total discharge current Itotal ( 8/20μs)	50 kA	Discharge current In (8/20 μs)	20 kA
Requirements class	Type I/II	Operating height in the grounded PV system	≤ 2000 m
Total discharge current Itotal (10/350μs)	12.5 kA	PV system voltage, max. Ucpv	1100 V

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### Rated data IEC / EN

Number of poles	1	Leakage current at Un	30 µA
Signalling contact	No	Voltage type	DC
Fuse protection	No	Response time / fallback time	≤ 25 ns
Standards	EN 61643-31, EN 50539-11, UL 1449	Lightning test current Iimp (10/350 µs)	6.25 kA
Energy coordination (≤10 m)	Type I, Type II, Type III	SPD type	T1, T2
Integrated back-up fuse	No		

### Connection data

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

### Electrical data

Voltage type	DC		
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### General data

Number of poles	1	Protection degree	IP20
Colour	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