

VPU PV II 3 R 1000 MB

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

www.weidmueller.com



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.	3035 150000
Type	VPU PV II 3 R 1000 MB
GTIN (EAN)	4099986992030
Qty.	1 items

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Technical data

Approvals

ROHS	Conform
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Dimensions and weights

Depth	70 mm	Depth (inches)	2.7559 inch
Height	112.3 mm	Height (inches)	4.4213 inch
Width	53.7 mm	Width (inches)	2.1142 inch
Net weight	304.88 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%

Connection data, remote alert

Cross-section for connected wire, solid core, min.	0.25 mm ²	Stripping length	5 mm
Cross-section for connected wire, solid core, max.	1.5 mm ²		

General data

Design	Installation housing; 3TE	UL 94 flammability rating	V-0
Colour	black	Protection degree	IP20 in installed state, IP20
Mounting rail	TS 35		

Insulation coordination acc. to EN 50178

Pollution severity	2
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Photovoltaic technical data

Standards	IEC 61643-31, EN 61643-31	Protection level Up (+/-, -/PE, +/PE)	≤ 3.8 kV
Operating height in ungrounded PV system	≤ 4000 m	Short-circuit current ISCPV	15 kA
Total discharge current I _{total} (8/20μs)	40 kA	Discharge current I _n (8/20 μs)	20 kA
Requirements class	Type II	Operating height in the grounded PV system	≤ 2000 m
PV system voltage, max. U _{cpv}	1000 V		

Rated data IEC / EN

Number of poles	3	Signalling contact	Yes, 250 V 1A 1CO
Voltage type	DC	Response time / fallback time	≤ 25 ns
Standards	IEC 61643-31, EN 61643-31	Requirements class, acc. to EN 61643-11	T2
Max. continuous voltage, U _c (DC)	1000 V	Discharge current I _n (8/20μs) wire-PE	20 kA

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Discharge current I _{max} (8/20μs) wire-PE40 kA		SPD type	T2
Short-circuit current rating ISCCR	15 kA	Integrated back-up fuse	No

Connection data

Stripping length	18 mm	Wire connection method	Screw connection
Type of connection	Screw connection	Tightening torque, min.	2.5 Nm
Tightening torque, max.	2.5 Nm	Wire cross-section, solid, min.	1.5 mm ²
Wire cross-section, solid, max.	6 mm ²	Wire connection cross section, finely stranded, min.	2.5 mm ²
Wire connection cross section, finely stranded, max.	25 mm ²	Connection cross-section, stranded, min.	2.5 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 in installed state, IP20
Colour	black		

Classifications

ETIM 8.0	EC000941	ETIM 9.0	EC000941
ETIM 10.0	EC000941	ECLASS 14.0	27-17-14-02
ECLASS 15.0	27-17-14-02		

Drawings

Electric symbol



Circuit diagram

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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.	2749890000	Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1	
GTIN (EAN)	4050118897098		
Qty.	1 ST		

Blank



ESG is the tried-and-tested marker in MultiCard format for use on many well-known electrical devices. The result is high-quality device marking with a high-contrast appearance.

Various types are available for devices from manufacturers like Siemens, ABB, Beckhoff etc.

Advantages at a glance:

- Tags for universal usage, self-adhesive or clip-on tags, depending on type
- For aligned equipment, e.g. circuit breakers, we supply ESG markers for clipping onto tag rails
- Individual laser-quality printing according to specifications

For custom printing: Please send us a file of our labeling software M-Print PRO or M-Print PRO Online (without installation) for your labeling specifications.

General ordering data

Type	ESG 6/15 K MC NE WS	Version	
Order No.	1880100000	ESG, Device markers x 15 mm, PA 66, Colour: white, Self-adhesive	
GTIN (EAN)	4032248478781		
Qty.	200 ST		

VPU Series



Extensive accessories round off the product range

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Accessories

General ordering data

Type	VPU PV EXTENDER	Version
Order No.	3123510000	
GTIN (EAN)	4099987270199	
Qty.	9 ST	
Type	PLUG VPU AC	Version
Order No.	2855300000	
GTIN (EAN)	4064675533283	
Qty.	10 ST	