

VPU PV II 3 R 600 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. | 3034790000 |
| Type | VPU PV II 3 R 600 MB |
| GTIN (EAN) | 4099986991675 |
| Qty. | 1 items |

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Technical data

Approvals

| | |
|------|---------|
| ROHS | Conform |
|------|---------|

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 | 254.55 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 | Colour | black |
| Protection degree | IP20 in installed state, IP20 | Mounting rail | TS 35 |

Insulation coordination acc. to EN 50178

| | | | |
|------------------------|-----|--------------------|---|
| Surge voltage category | III | Pollution severity | 2 |
|------------------------|-----|--------------------|---|

Photovoltaic technical data

| | | | |
|---|---------------------------|--|----------|
| Standards | IEC 61643-31, EN 61643-31 | Protection level Up (+/-, -/PE, +/PE) | ≤ 2.5 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} | 600 V | | |

Rated data IEC / EN

| | | | |
|---|---------------------------|---|--------------|
| Number of poles | 3 | Signalling contact | 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 |
| Discharge current I _n (8/20μs) wire-PE | 20 kA | Discharge current I _{max} (8/20μs) wire-PE | 40 kA |
| SPD type | T2 | Short-circuit current rating ISCCR | 15 kA |
| Integrated back-up fuse | No | | |

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Technical data

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 |
|--------------|----|

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 | |