

VPU II 2 PV 1000V DC

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



Type II surge voltage arrester for use in photovoltaic applications

- Pluggable arrester
- Suitable for protecting DC systems
- High energy absorption with short response time
- Tested in accordance with EN 50539-11
- Suitable for use in accordance with IEC 60364-7-712 / EN 50539-12
- Coded voltage level
- Installation in distribution board
- Thermal protection function

General ordering data

| | |
|---------------------|--|
| Version | Surge voltage arrester, Low voltage, without telecomm. contact |
| Order No. | 1351220000 |
| Type | VPU II 2 PV 1000V DC |
| GTIN (EAN) | 4050118158830 |
| Qty. | 1 pc(s). |
| Replacement parts | 1351190000 |
| Alternative product | 2530550000 |

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Technical data

Dimensions and weights

| | | | |
|-----------------------------|---------|-----------------|------------|
| Depth | 69 mm | Depth (inches) | 2.717 inch |
| Height | 94 mm | Height (inches) | 3.701 inch |
| Width | 35.6 mm | Width (inches) | 1.402 inch |
| Mounting dimension - height | 75 mm | Net weight | 282 g |

Temperatures

| | | | |
|---------------------|----------------|-----------------------|----------------|
| Storage temperature | -40 °C...80 °C | Operating temperature | -40 °C...70 °C |
|---------------------|----------------|-----------------------|----------------|

General data

| | | | |
|---------------------------|---------------|--------------------------|---|
| Colour | black, orange | Design | Installation housing; 2TE, Insta IP 20 |
| Operating altitude | ≤ 2000 m | Optical function display | green = OK; red = arrester is defective - replace |
| Protection degree | IP20 | Rail | TS 35 |
| UL 94 flammability rating | V-0 | Version | without telecomm. contact |

Insulation coordination acc. to EN 50178

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

Photovoltaic technical data

| | | | |
|---|-------------|--|-------------|
| Conditions and requirements | EN 50539-11 | Discharge current I_n (8/20 μ s) | 12.5 kA |
| Maximum continuous operating voltage UCPV mode +/-, -/PE, +/-PE | 1,000 V DC | PV system voltage, max. U_{cpv} | 1,000 V |
| Protection level U_p (+/-) | ≤ 5.6 kV | Protection level U_p (+/PE) | ≤ 2.8 kV |
| Protection level U_p (-/PE) | ≤ 2.8 kV | Requirements class | Type II |
| Short-circuit current I_{SCPV} | 200 A | Standards | EN 50539-11 |

Rated data IEC / EN

| | | | |
|--|-------------|--|----------|
| Discharge current I_{max} (8/20 μ s) wire-PE | 25 kA | Discharge current I_n (8/20 μ s) wire-PE | 12.5 kA |
| Leakage current at U_n | 30 μ A | Max. continuous voltage, U_c (DC) | 1000 V |
| Number of poles | 2 | PV voltage, acc. to IEC 60364-7-712 | ≤ 1000 V |
| Rated voltage (DC) | 1000 V | Response time | ≤ 25 ns |
| SPD type | T2 | Signalling contact | No |
| Standards | EN 50539-11 | Voltage type | DC |

Connection data

| | | | |
|--|---------------------|--|--------------------|
| Stripping length | 15 mm | Type of connection | Screw connection |
| Stripping length, rated connection | 15 mm | Tightening torque, min. | 2 Nm |
| Tightening torque, max. | 3 Nm | Clamping range, rated connection | 16 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. | 16 mm ² |
| Wire connection cross section, finely stranded, min. | 1.5 mm ² | Wire connection cross section, finely stranded, max. | 25 mm ² |
| Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 1.5 mm ² | Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 50 mm ² |
| Connection cross-section, stranded, min. | 1.5 mm ² | Connection cross-section, stranded, max. | 50 mm ² |

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Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 6.0 | EC000941 | ETIM 7.0 | EC000941 |
| ETIM 8.0 | EC000941 | ECLASS 9.0 | 27-13-08-05 |
| ECLASS 9.1 | 27-13-08-05 | ECLASS 10.0 | 27-13-08-05 |
| ECLASS 11.0 | 27-13-08-05 | ECLASS 12.0 | 27-17-90-90 |

Tender specification sheets

| | | | |
|--------------------|---|---------------------|---|
| Long specification | <p>Multi-pole surge voltage arrester according to the requirements of Class III acc. to IEC 50539-11. Consisting of VO material, the arrester serves as overvoltage protection in applications acc. to IEC 50539-12. The use of a high-performance varistor meets the inspection requirements for Class II surge protection systems on the basis of the standards. The arrester is installed in the vicinity of the equipment that needs protection, in a commercially available installation/electrical distribution enclosure. With thermal separation device on the varistor. If protection is no longer available, the colour in the display window changes from green to red. Rated voltage: 1000 VDC I_n/max (8/20 μs): 12.5/25 kA, protection level < 2.8 kV, type: Weidmüller VPU II 2 PV 1000 V/25 kA, Order No. 1351220000 or equivalent</p> | Short specification | <p>Class II arrester with I_n/I_{max}: 12.5/25 kA suitable for PV systems. Protection level < 2.8 kV. Type: Weidmüller VPU II 2 PV 1000 V/25 kA Order no. 1352200000 or equivalent</p> |
|--------------------|---|---------------------|---|

Approvals

Approvals



ROHS

Conform

Downloads

| | |
|---|---|
| Approval/Certificate/Document of Conformity | EAC VPU SERIES EU Konformitätserklärung / EU Declaration of Conformity |
| Engineering Data | CAD data – STEP |
| Engineering Data | EPLAN, WSCAD |
| User Documentation | Beipackzettel / Instruction sheet |
| Catalogues | Catalogues in PDF-format |
| Brochures | |

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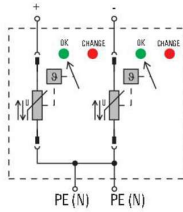
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Drawings

Electric symbol



Circuit diagram