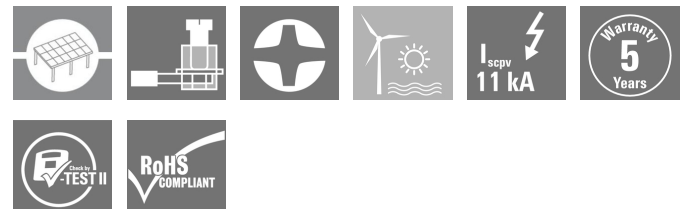


**VPU PV I+II 3 1000 E****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)**Product image**

Similar to illustration

**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, 1100 V, 40 kA |
| Order No.  | <a href="#">2530520000</a>                         |
| Type       | VPU PV I+II 3 1000 E                               |
| GTIN (EAN) | 4050118540543                                      |
| Qty.       | 1 pc(s).                                           |

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## Technical data

## Dimensions and weights

|                             |       |                 |            |
|-----------------------------|-------|-----------------|------------|
| Depth                       | 70 mm | Depth (inches)  | 2.756 inch |
| Height                      | 96 mm | Height (inches) | 3.78 inch  |
| Mounting dimension - height | 75 mm | Net weight      | 442 g      |
| Width                       | 54 mm | Width (inches)  | 2.126 inch |

## Temperatures

|                     |                       |                       |                |
|---------------------|-----------------------|-----------------------|----------------|
| Storage temperature | -40 °C...85 °C        | Operating temperature | -40 °C...70 °C |
| Humidity            | 5 - 95% rel. humidity |                       |                |

## Rated data UL

|                     |         |
|---------------------|---------|
| Rated Voltage $U_N$ | 1,100 V |
|---------------------|---------|

## General data

|                          |                                                   |                           |                                        |
|--------------------------|---------------------------------------------------|---------------------------|----------------------------------------|
| Colour                   | black, orange                                     | Design                    | Installation housing; 3TE, Insta IP 20 |
| Optical function display | green = OK; red = arrester is defective - replace | Protection degree         | IP20                                   |
| Rail                     | TS 35                                             | UL 94 flammability rating | V-0                                    |

## Insulation coordination acc. to EN 50178

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

## Photovoltaic technical data

|                                                    |                          |                                                      |                                       |
|----------------------------------------------------|--------------------------|------------------------------------------------------|---------------------------------------|
| Discharge current $I_n$ (8/20 $\mu$ s)             | 20 kA                    | Discharge current, max. (8/20 $\mu$ s)               | 40 kA                                 |
| Operating height in the grounded PV system         | $\leq 2000$ m            | Operating height in ungrounded PV system             | < 4,000 m, see operating instructions |
| PV system voltage, max. $U_{cpv}$                  | 1,100 V                  | Protection level $U_p$ mode (+/-, -/PE, +/- PE)      | $\leq 3.8$ kV                         |
| Requirements class                                 | Type I/II                | Short-circuit current $I_{scpv}$                     | 11,000 A                              |
| Standards                                          | EN 50539-11:2013+A1:2014 | Standby power consumption $P_C$                      | < 0.2 W                               |
| Total discharge current $I_{total}$ (8/20 $\mu$ s) | 50 kA                    | Total discharge current $I_{total}$ (10/350 $\mu$ s) | 6.25 kA                               |

## Rated data IEC / EN

|                                        |                          |                          |              |
|----------------------------------------|--------------------------|--------------------------|--------------|
| Discharge current, max. (8/20 $\mu$ s) | 40 kA                    | Leakage current at $U_n$ | 30 $\mu$ A   |
| Number of poles                        | 3                        | Response time            | $\leq 25$ ns |
| SPD type                               | T1, T2                   | Signalling contact       | No           |
| Standards                              | EN 50539-11:2013+A1:2014 | Voltage type             | DC           |

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## Technical data

## Connection data

|                                                            |                    |                                                            |                     |
|------------------------------------------------------------|--------------------|------------------------------------------------------------|---------------------|
| Type of connection                                         | Screw connection   | Stripping length, rated connection                         | 18 mm               |
| Tightening torque, min.                                    | 2 Nm               | Tightening torque, max.                                    | 4.5 Nm              |
| Clamping range, rated connection                           | 16 mm <sup>2</sup> | Clamping range, min.                                       | 1.5 mm <sup>2</sup> |
| Clamping range, max.                                       | 35 mm <sup>2</sup> | Wire cross-section, solid, min.                            | 1.5 mm <sup>2</sup> |
| Wire cross-section, solid, max.                            | 16 mm <sup>2</sup> | Wire connection cross section, finely stranded, min.       | 1.5 mm <sup>2</sup> |
| Wire connection cross section, finely stranded, max.       | 25 mm <sup>2</sup> | Conductor cross-section, flexible, AEH (DIN 46228-1), min. | 1.5 mm <sup>2</sup> |
| Conductor cross-section, flexible, AEH (DIN 46228-1), max. | 25 mm <sup>2</sup> | Connection cross-section, stranded, min.                   | 1.5 mm <sup>2</sup> |
| Connection cross-section, stranded, max.                   | 35 mm <sup>2</sup> |                                                            |                     |

## Guarantee

|               |         |
|---------------|---------|
| Time interval | 5 years |
|---------------|---------|

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC000941    | ETIM 7.0    | 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 |

## Approvals

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

## Downloads

|                                             |                                                             |
|---------------------------------------------|-------------------------------------------------------------|
| Approval/Certificate/Document of Conformity | <a href="#">EAC VPU SERIES</a><br><a href="#">CE VPU_PV</a> |
| Engineering Data                            | <a href="#">STEP</a>                                        |
| User Documentation                          | <a href="#">Manual</a>                                      |

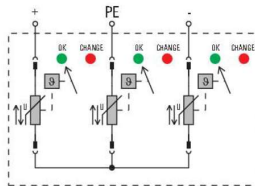
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# Drawings

## Electric symbol



Circuit diagram