

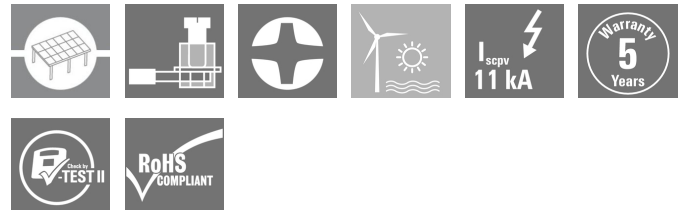
**VPU PV II 3 R 1500****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Product image****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, 1500 V, with remote contact |
| Order No.  | <a href="#">2530650000</a>                                       |
| Type       | VPU PV II 3 R 1500                                               |
| GTIN (EAN) | 4050118540864                                                    |
| Qty.       | 1 pc(s).                                                         |

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## Technical data

## Dimensions and weights

|                             |        |                 |            |
|-----------------------------|--------|-----------------|------------|
| Depth                       | 70 mm  | Depth (inches)  | 2.756 inch |
| Height                      | 102 mm | Height (inches) | 4.016 inch |
| Mounting dimension - height | 75 mm  | Net weight      | 440 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

|                         |         |                                                |              |
|-------------------------|---------|------------------------------------------------|--------------|
| Certificate No. (UR)    | E354261 | Ambient temperature (operational), max. 85 °C  |              |
| Rated Voltage $U_N$     | 1,500 V | SCCR                                           | 65 kA        |
| $I_n$                   | 20 kA   | Category                                       | SPD TYPE 1CA |
| Rated current (UL)      | 1,500 V | Ambient temperature (operational), min. -40 °C |              |
| Certificate No. (cURus) | E354261 | VPR (DC+/DC-)                                  | 4,000 V      |
| VPR (DC-/G)             | 4,000 V | Voltage type                                   | DC           |

## Connection data, remote alert

|                                                    |                      |                                                    |                     |
|----------------------------------------------------|----------------------|----------------------------------------------------|---------------------|
| Connection type                                    | PUSH IN              | Cross-section for connected wire, solid core, max. | 1.5 mm <sup>2</sup> |
| Cross-section for connected wire, solid core, min. | 0.14 mm <sup>2</sup> | Stripping length                                   | 8 mm                |

## 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                                    |
| Version                  | with remote contact                               |                           |                                        |

## 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                                 | 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. $U_{cpv}$                  | 1,500 V                                |
| Protection level $U_p$ mode (+/-, -/PE, +/- PE) | $\leq 5,0$ kV                         | Requirements class                                 | Type II                                |
| Short-circuit current $I_{scpv}$                | 11,000 A                              | Standards                                          | EN 50539-11:2013+A1:2014, UL 1449 Ed.4 |
| Standby power consumption $P_c$                 | < 0.2 W                               | Total discharge current $I_{total}$ (8/20 $\mu$ s) | 40 kA                                  |

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## Technical data

## Rated data IEC / EN

|                          |                                        |                    |                                                                |
|--------------------------|----------------------------------------|--------------------|----------------------------------------------------------------|
| Leakage current at $U_n$ | 30 $\mu$ A                             | Number of poles    | 3                                                              |
| Rated voltage (DC)       | 1500 V                                 | Response time      | $\leq 25$ ns                                                   |
| SPD type                 | T2                                     | Signalling contact | 250 V 1A 1CO, 125 V AC / 1 A, 48 V CC / 0.5 A, 24 V DC / 0.5 A |
| Standards                | EN 50539-11:2013+A1:2014, UL 1449 Ed.4 | Voltage type       | DC                                                             |

## Connection data

|                                                            |                    |                                                            |                     |
|------------------------------------------------------------|--------------------|------------------------------------------------------------|---------------------|
| Type of connection                                         | Screw connection   | Stripping length, rated connection                         | 18 mm               |
| Tightening torque, min.                                    | 2 Nm               | Tightening torque, max.                                    | 4 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> |                                                            |                     |

## Ratings IECEx/ATEX/cUL

|                         |         |
|-------------------------|---------|
| Certificate no. (cULus) | E354261 |
|-------------------------|---------|

## 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

Approvals



|                       |         |
|-----------------------|---------|
| ROHS                  | Conform |
| UL File Number Search | E354261 |

## 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>                                                            |
| Tender specification                        | <a href="#">Ausschreibungstext DE</a><br><a href="#">Tenderspecification EN</a> |
| User Documentation                          | <a href="#">Manual</a>                                                          |

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Catalogue status 12.03.2021 / We reserve the right to make technical changes.

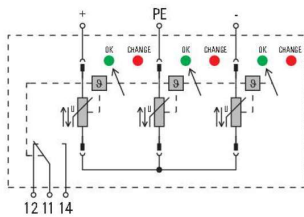
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# Drawings

## Electric symbol



Circuit diagram