

## VPU PV I+II 5 R 1500

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)



### General ordering data

|            |                                      |
|------------|--------------------------------------|
| Order No.  | 3012990000                           |
| Type       | <a href="#">VPU PV I+II 5 R 1500</a> |
| GTIN (EAN) | 4099986922594                        |
| Qty.       | 1 items                              |

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## Technical data

## Approvals

Approvals



ROHS Conform

## Dimensions and weights

|            |        |                 |             |
|------------|--------|-----------------|-------------|
| Depth      | 86 mm  | Depth (inches)  | 3.3858 inch |
| Height     | 111 mm | Height (inches) | 4.3701 inch |
| Width      | 90 mm  | Width (inches)  | 3.5433 inch |
| Net weight | 780 g  |                 |             |

## Temperatures

|                       |                |                     |                       |
|-----------------------|----------------|---------------------|-----------------------|
| Storage temperature   | -40 °C...85 °C | Ambient 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 (remote alert), min. | 0.25 mm <sup>2</sup>                        | Stripping length                                                  | 10 mm               |
| Connection type                                                   | Screw terminal connectors, Screw connection | Cross-section for connected wire, solid core (remote alert), max. | 1.5 mm <sup>2</sup> |

## General data

|                          |                                                   |                           |                         |
|--------------------------|---------------------------------------------------|---------------------------|-------------------------|
| Optical function display | green = OK; red = arrester is defective - replace | Version                   | Surge protection I / II |
| Design                   | Installation housing, 5 TE, Insta IP 20           | UL 94 flammability rating | V-0                     |
| Colour                   | orange, black                                     | Suitable for              | Photovoltaics           |
| Protection degree        | IP20 in installed state, IP20                     | Mounting rail             | TS 35                   |
| Operating altitude       | ≤ 4000 m                                          |                           |                         |

## Insulation coordination acc. to EN 50178

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

## Photovoltaic technical data

|                                            |                          |                                                           |           |
|--------------------------------------------|--------------------------|-----------------------------------------------------------|-----------|
| Standards                                  | EN 61643-31, EN 50539-11 | Lightning test current Iimp (10/350 µs)                   | 5 kA      |
| Protection level Up (+/-, -/PE, +/PE)      | ≤ 5,0 kV                 | Operating height in ungrounded PV system                  | ≤ 4000 m  |
| Short-circuit current ISCP                 | 11000 A                  | Total discharge current (I <sub>total</sub> ) (8 / 20 µs) | 50 kA     |
| Discharge current I <sub>n</sub> (8/20 µs) | 20 kA                    | Requirements class                                        | Type I/II |

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## Technical data

|                                            |          |                                                                   |        |
|--------------------------------------------|----------|-------------------------------------------------------------------|--------|
| Operating height in the grounded PV system | ≤ 2000 m | Total discharge current (I <sub>total</sub> ) (10 / 350 10 kA μs) |        |
| Protection level Up (+/-)                  | ≤ 5,0 kV | PV system voltage (U <sub>cpv</sub> ), max.                       | 1500 V |

## Rated data IEC / EN

|                                         |                           |                                                           |                          |
|-----------------------------------------|---------------------------|-----------------------------------------------------------|--------------------------|
| Number of poles                         | 5                         | Leakage current (nominal voltage)                         | 30 μA                    |
| Signalling contact                      | 250 V 1A 1CO              | Rated voltage (DC)                                        | 1500 V                   |
| Voltage type                            | DC                        | Response time / fallback time                             | ≤ 25 ns                  |
| Suitable for                            | Photovoltaics             | Standards                                                 | EN 61643-31, EN 50539-11 |
| Lightning test current Iimp (10/350 μs) | 5 kA                      | Max. continuous voltage, U <sub>c</sub> (DC)              | 1500 V                   |
| Energy coordination (≤10 m)             | Type I, Type II, Type III | Discharge current I <sub>max</sub> (8/20 μs) wire-PE30 kA |                          |
| SPD type                                | T2, T1                    | Short-circuit current rating ISCCR                        | 50 kA                    |
| Integrated back-up fuse                 | No                        |                                                           |                          |

## Connection data

|                                                              |                    |                                                      |                     |
|--------------------------------------------------------------|--------------------|------------------------------------------------------|---------------------|
| Stripping length                                             | 18 mm              | Wire connection method                               | Screw connection    |
| Type of connection                                           | Screw connection   | Stripping length, rated connection                   | 18 mm               |
| Tightening torque, min.                                      | 3 Nm               | Tightening torque, max.                              | 4.5 Nm              |
| Clamping range, rated connection                             | 6 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.                              | 35 mm <sup>2</sup> | Wire connection cross-section, finely stranded, max. | 35 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>  |

## Electrical data

|              |    |
|--------------|----|
| Voltage type | DC |
|--------------|----|

## General data

|                 |               |                   |                               |
|-----------------|---------------|-------------------|-------------------------------|
| Number of poles | 5             | Protection degree | IP20 in installed state, IP20 |
| Colour          | orange, black |                   |                               |

## Guarantee

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

## Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC001457    | ETIM 9.0    | EC001457    |
| ETIM 10.0   | EC001457    | ECLASS 14.0 | 27-17-14-03 |
| ECLASS 15.0 | 27-17-14-03 |             |             |

## Drawings

