

VPU series

VPU PV I+II 0 1000 E

Weidmüller Interface GmbH & Co. KG
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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

| | |
|------------|---|
| Type | VPU PV I+II 0 1000 E |
| Order No. | 2530530000 |
| Version | Surge voltage arrester, Low voltage, Accessories, 1000 V, Spare arrester, 40 kA, I _{imp} : 6.25 kA |
| GTIN (EAN) | 4050118540741 |
| Qty. | 1 pc(s). |

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Technical data
Dimensions and weights

| | | | |
|------------|-------|-----------------|------------|
| Width | 18 mm | Width (inches) | 0.709 inch |
| Height | 45 mm | Height (inches) | 1.772 inch |
| Depth | 63 mm | Depth (inches) | 2.48 inch |
| Net weight | 72 g | | |

Temperatures

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

Rated data UL

| | | | |
|---------------------|---------|---|--------------|
| Voltage type | DC | Ambient temperature (operational), max. | 85 °C |
| Rated Voltage U_N | 1,100 V | SCCR | 50 kA |
| I_n | 20 kA | Category | SPD TYPE 1CA |

General data

| | | | |
|---------------------------|---|-------------------|----------------|
| Altitude | < 4,000 m, see operating instructions | Colour | orange |
| Optical function display | green = OK; red = arrester is defective - replace | Protection degree | IP20 |
| UL 94 flammability rating | V-0 | Version | Spare arrester |

Insulation coordination acc. to EN 50178

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

Photovoltaic technical data

| | | | |
|--|--|--|---------------|
| Discharge current I_n (8/20 μ s) | 20 kA | Discharge current, max. (8/20 μ s) | 40 kA |
| Lightning test current I_{imp} (10/350 μ s) | 6.25 kA | PV system voltage, max. U_{cpv} | 1,000 V |
| Protection level U_p mode (+/-, -/PE, +/- PE) | ≤ 3.8 kV | Protection level U_p mode (+/-) | ≤ 3.8 kV |
| Protection level U_p mode (-/PE) | ≤ 3.8 kV | Protection level U_p mode(+/PE) | ≤ 3.8 kV |
| Requirements class | Type I/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 μ s) | 50 kA | Total discharge current I_{total} (10/350 μ s) | 6.25 kA |

Connection data

| | |
|--------------------|-----------|
| Type of connection | pluggable |
|--------------------|-----------|

Classifications

| | | | |
|------------|-------------|------------|-------------|
| ETIM 3.0 | EC000941 | ETIM 5.0 | EC000510 |
| ETIM 6.0 | EC000941 | UNSPSC | 30-21-19-21 |
| eClass 5.1 | 27-13-08-01 | eClass 6.2 | 27-13-08-02 |
| eClass 7.1 | 27-14-02-01 | eClass 8.1 | 27-14-02-01 |
| eClass 9.0 | 27-13-08-05 | eClass 9.1 | 27-13-08-05 |

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Data sheet**VPU series**
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ROHS Conform

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Data sheet

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Drawings

Electric symbol

