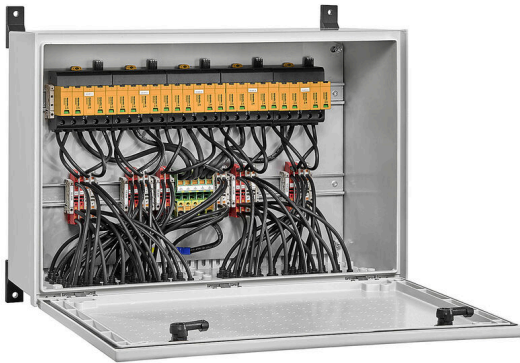


PVC DC 2I 2O 10MPP SPD1R WM4 11

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
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 Germany

www.weidmueller.com



PV Next combiner boxes for inverters with 1 to 12 MPP trackers are used to protect the DC side of a photovoltaic system. The combiner boxes protect the inverter against overvoltages and thus comply with the European Directive CLC/TS 5 1643-32. In addition, these products offer the possibility to protect the system against reverse currents and the possibility to combine strings to save cables during installation.

General ordering data

| | |
|------------|---|
| Version | Photovoltaics, Combiner Box, PV Next, 1100 V, 10 MPP's, 2 Inputs / 2 Outputs per MPP, Surge protection I / II, WM4C |
| Order No. | 8000112516 |
| Type | PVC DC 2I 2O 10MPP SPD1R WM4 11 |
| GTIN (EAN) | 4099986850019 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

| | | | |
|------------|----------|-----------------|--------------|
| Depth | 257 mm | Depth (inches) | 10.1181 inch |
| Height | 488.2 mm | Height (inches) | 19.2204 inch |
| Width | 600 mm | Width (inches) | 23.622 inch |
| Net weight | 17840 g | | |

Temperatures

Ambient temperature -20 °C...50 °C Humidity 5 - 90 %, no condensation

Environmental Product Compliance

| | |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 7a, 7cl |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | bdab5698-6a20-4370-8e28-8810d882d01a |

Included in delivery

| | | |
|----------------------|----------|---------------|
| Included accessories | Article | Mounting foot |
| | Quantity | 4 |
| | Article | Dustcap VSSO |
| | Quantity | 40 |
| | Article | Sealing plug |
| | Quantity | 3 |

Approvals and norms

Approvals EN 61439-2, IEC 61439-2

Guarantee

Time interval 5 years

Electrical characteristics

| | |
|--|----------------------------------|
| Rated DC voltage | 1100 V |
| Rated short-term current resistance | Rated current 43.75 A |
| Current per Maximum Power Point, max. 35 A | |
| Rated DC current per connection | Current per string, max. 35.00 A |

Enclosure

| | | | |
|---------------------|---|------------------------|-------------------|
| Insulating material | Polyester glass-fibre reinforced, Polycarbonate | Type of mounting | Fixing lugs |
| Impact resistance | IK10 in accordance with IEC 62262 | Enclosure attachment | Via mounting feet |
| Protection class | II | Connection type string | Plug WM4C |

Creation date 19.03.2026 07:54:59 MEZ

Catalogue status / Drawings

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Technical data

General data

| | | | |
|-----------------------|---|-------------------|------|
| Standards | EN 61643-31 | Protection degree | IP65 |
| Installation location | Protected outdoor area (>1 km from sea) | | |

Inputs

| | | | |
|--------------------------------------|--|---|--|
| Amount of maximum power points (MPP) | 10 | | |
| Functional earth connector | Cable entry | Number of cable entries | 2 |
| | Wire connection | Type of connection | PUSH IN with actuator |
| | | Flexible, max. H05(07) V-K | 25 mm ² |
| | | w. wire end ferrule, DIN 46228 pt 1, max. | 16 mm ² |
| Number of conduit inlets | 20 | | |
| DC Input + & - | Wire connection | Type of connection | WM4C plug-in connector |
| | | Compatible cable cross-section | EN 50618:2015 |
| | | Wire cross-section, min. | 4 mm ² |
| | | Wire cross-section, max. | 6 mm ² |
| | Cable entry | Number of cable entries | 20 |
| Fuse type | Neither fuse cartridge nor holder | | |
| Fuses | No | | |
| Max. number of DC inputs | per Maximum Power Point 2 inputs connected in parallel | | |
| Number of string inputs per MPP | ≤ 2 | | |
| Surge protection auxiliary contact | Cable entry | Number of cable entries | 1 |
| | Wire connection | Type of connection | Tension clamp connection with actuator |
| | | Flexible, max. H05(07) V-K | 1.5 mm ² |
| Number of inputs | 20 | | |

Outputs

| | | | |
|---------------------------|---|--------------------------------|------------------------|
| Max. number of DC outputs | per Maximum Power Point 2 outputs connected in parallel | | |
| DC Output + & - | Wire connection | Type of connection | WM4C plug-in connector |
| | | Compatible cable cross-section | TÜV 2 Pfg1169/08.07 |
| | | Wire cross-section, min. | 4 mm ² |
| | | Wire cross-section, max. | 6 mm ² |

Surge protection DC side

| | | | |
|--|-------------|--|-----------|
| Standards | EN 61643-31 | Lightning test current Iimp (10/350 μs) | 5 kA |
| Protection level Up (+/-, -/PE, +/-PE) | ≤ 3.8 kV | Standby power consumption PC | <0.2 W |
| Short-circuit current ISCPV | 11000 A | Total discharge current Itotal (8/20 μs) | 50 kA |
| Discharge current In (8/20 μs) | 20 kA | Requirements class | Type I/II |

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Technical data

| | | | |
|--|----------|----------------------------|--------------------|
| Total discharge current I _{total} (10/350µs) | 10 kA | Protection level Up (-/PE) | ≤ 3.8 kV |
| Protection level Up (+/-) | ≤ 3.8 kV | Protection level Up (+/PE) | ≤ 3.8 kV |
| PV system voltage, max. U _{cpv} | 1100 V | Surge protection DC side | 1000 V type I + II |
| Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/PE | 1100 V | | |

DC load break switch

| | | | |
|--------------|----|-------------------------------|-----------|
| Voltage type | DC | Switch disconnecter execution | no switch |
|--------------|----|-------------------------------|-----------|

Important note

| | |
|---------------------|--|
| Product information | The SCIP number was assigned due to a lead content of more than 0.1 % of the net weight. Safe use instruction according to ECHA: The identification of the hazardous substance is sufficient to allow safe use of the article throughout its life cycle, including the service life, disassembly and waste/recycling phase |
|---------------------|--|

Classifications

| | | | |
|-------------|-------------|-------------|-------------|
| ETIM 8.0 | EC003857 | ETIM 9.0 | EC003857 |
| ETIM 10.0 | EC003857 | ECLASS 14.0 | 22-57-02-92 |
| ECLASS 15.0 | 22-57-02-92 | | |

Tender specification sheets

| | |
|--------------------|--|
| Long specification | <p>Combiner box for inverters with 10 MPP tracker, suitable for protecting the DC side of a photovoltaic system according to DIN CLC/TS 5 1643-32. MPP1: 2 inputs, connection via WM4 C connector, compatible with cable type TÜV 2 Pfg 1 169/08.07 / EN 506 18:2063</p> <p>1 output, connection via WM4 C connector, compatible with cable type TÜV 2 Pfg 1 169/08.07 / EN 506 18:2063</p> <p>MPP2 to 10: identical to MPP1 Max. string voltage U_{oc}: 1100 VDC</p> <p>1 class/type I + II combined arrester with signal contact</p> <p>Connection of the signal contact via M16 cable glands (Clamping range 5-10 mmØ) max. conductor cross-section: 1.5 mm²</p> <p>Connection of the functional earth via M16 cable glands (Clamping range 5-10 mmØ) Conductor cross-section: >= 16 mm²</p> <p>Protection class: IP65</p> <p>All built into a glass fibre reinforced polyester housing.</p> |
|--------------------|--|

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Technical data

Dimensions HxWxD:
4.695x600x2.554 mm
Approval according to low
voltage switchgear and
controlgear IEC 61439-1
and EN 61439-2

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Drawings

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Accessories

Cutting tools



Cutting tools for conductors up to 8 mm, 12 mm, 14 mm and 22 mm outside diameter. The special blade geometry allows pinch-free cutting of copper and aluminium conductors with minimum physical effort. The cutting tools (KT 8 to KT 22) also come with VDE and GS-tested protective insulation up to 1,000 V in accordance with EN/IEC 60900.

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | KT 14 | Version | |
| Order No. | 1157820000 | Cutting tools, Cutting tool for one-hand operation | |
| GTIN (EAN) | 4032248945344 | | |
| Qty. | 1 ST | | |

Tools



- For flexible and solid conductors with special insulating materials
- High-quality stripping for industrial applications (complies with aircraft industry requirements)
- Specially shaped blades enable stripping of special types of insulation and conductor configurations
- Stripping length adjustable via end stop
- Very versatile thanks to interchangeable stripping units
- Stripping results reproduced accurately over and over again
- No damage to the conductor
- A long-lasting, reliable tool thanks to its sturdy design
- Integrated cutting function

General ordering data

| | | | |
|------------|----------------------------|----------------------------------|--|
| Type | MULTI-STRIPAX PV | Version | |
| Order No. | 1190490000 | Photovoltaics, Plug-in connector | |
| GTIN (EAN) | 4032248973262 | | |
| Qty. | 1 ST | | |

Slotted screwdriver



VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

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Accessories

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | SDIS 0.6X3.5X100 | Version | |
| Order No. | 2749810000 | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm | |
| GTIN (EAN) | 4050118897012 | | |
| Qty. | 1 ST | | |
| Type | SDIS 1.0X5.5X125 | Version | |
| Order No. | 2749850000 | Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade thickness (A): 1 mm | |
| GTIN (EAN) | 4050118897050 | | |
| Qty. | 1 ST | | |

UV-resistant cable ties



UV-resistant polyamide 6.6 ensures long durability of our special cable ties even with strong UV radiation. Ideal for continuous outdoor use.

General ordering data

| | | | |
|------------|----------------------------|---|--|
| Type | CB-UVR 290/4,5 BK | Version | |
| Order No. | 2659350000 | Cable ties, 4.5 x 290 mm, Polyamide 66, 220 N | |
| GTIN (EAN) | 4050118682816 | | |
| Qty. | 100 ST | | |

PV-Stick field connectors



Faster is better. This also applies to the cabling of solar systems. Our handy connectors stay firmly in your grip even in frosty temperatures and can be installed very quickly and easily without a crimping tool.

You don't need crimp contacts and crimping tools and you avoid assembly errors. This saves up to 50% installation time – without affecting quality. The new photovoltaic connectors are TÜV-approved and comply with IEC 62852.

Our "SNAP IN" technology enables safe connections with minimal effort – insert, turn: current!

- 1.500 V DC (DE) / 1,500 V DC (EN)
- SNAP IN technology
- Standard-compliant quality in accordance with IEC 62852
- Ergonomic, prize-winning design
- Fastest PV connector currently available
- Reliable latching

General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | PV-STICK SET | Version | |
| Order No. | 1422030000 | Photovoltaics, Plug-in connector, DC version | |
| GTIN (EAN) | 4050118225723 | | |
| Qty. | 1 ST | | |

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Accessories

| | | |
|------------|----------------------------|--|
| Type | PV-STICK+ VPE10 | Version |
| Order No. | 1303450000 | Photovoltaics, Plug-in connector, DC version |
| GTIN (EAN) | 4050118102468 | |
| Qty. | 10 ST | |
| Type | PV-STICK- VPE10 | Version |
| Order No. | 1303490000 | Photovoltaics, Plug-in connector, DC version |
| GTIN (EAN) | 4050118102529 | |
| Qty. | 10 ST | |
| Type | PV-STICK+ VPE50 | Version |
| Order No. | 1303460000 | Photovoltaics, Plug-in connector, DC version |
| GTIN (EAN) | 4050118102383 | |
| Qty. | 50 ST | |
| Type | PV-STICK- VPE50 | Version |
| Order No. | 1303500000 | Photovoltaics, Plug-in connector, DC version |
| GTIN (EAN) | 4050118102536 | |
| Qty. | 50 ST | |
| Type | PV-STICK+ VPE200 | Version |
| Order No. | 1303470000 | Photovoltaics, Plug-in connector, DC version |
| GTIN (EAN) | 4050118102543 | |
| Qty. | 200 ST | |
| Type | PV-STICK- VPE200 | Version |
| Order No. | 1303510000 | Photovoltaics, Plug-in connector, DC version |
| GTIN (EAN) | 4050118102390 | |
| Qty. | 200 ST | |

Sealing sets



General ordering data

| | | |
|------------|----------------------------|---|
| Type | BLINDPLUG SET5 7X28MM | Version |
| Order No. | 3077670000 | Photovoltaics, Blind plug |
| GTIN (EAN) | 4099987081894 | |
| Qty. | 1 ST | |
| Type | BLINDPLUG SET50 7X28MM | Version |
| Order No. | 3077650000 | Photovoltaics, Blind plug, Accessories, Blind plug, 50 pieces |
| GTIN (EAN) | 4099987081870 | |
| Qty. | 1 ST | |

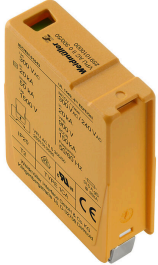
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Accessories

Spare Arrester



General ordering data

| | | | |
|------------|----------------------------|---------|--|
| Type | VPU PV I+II 5 0 1000 | Version | |
| Order No. | 2857000000 | | |
| GTIN (EAN) | 4064675537366 | | |
| Qty. | 9 ST | | |

| | | | |
|------------|----------------------------|---------|--|
| Type | VPU PV I+II 5 0M 1000 | Version | |
| Order No. | 2856650000 | | |
| GTIN (EAN) | 4064675536581 | | |
| Qty. | 9 ST | | |

Replacement parts



General ordering data

| | | | |
|------------|----------------------------|---------|--|
| Type | BRES REPLACEMENT HINGE | Version | |
| Order No. | 3098500000 | | Photovoltaics, Spare part, Hinge pin, 10 MPP's, 12 MPP's |
| GTIN (EAN) | 4099987129831 | | |
| Qty. | 1 ST | | |

| | | | |
|------------|----------------------------|---------|--|
| Type | BRES BO-OFM-14-B44-86 W... | Version | |
| Order No. | 3139420000 | | Photovoltaics, Mounting foot, Spare part, Mounting foot, 10 MPP's, |
| GTIN (EAN) | 4099987378390 | | 12 MPP's |
| Qty. | 1 ST | | |