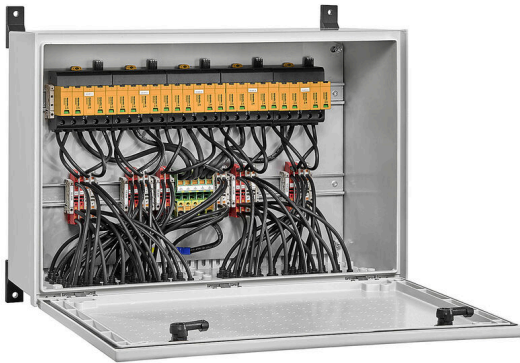


PVC DC 2I 10 10MPP SPD1R EVO 11

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 / 1 Output per MPP, Surge protection I / II, MC4-Evo 2 |
| Order No. | 8000106274 |
| Type | PVC DC 2I 10 10MPP SPD1R EVO 11 |
| GTIN (EAN) | 4099986665354 |
| Qty. | 1 items |

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

| | | | |
|------------|----------|-----------------|--------------|
| Depth | 248.9 mm | Depth (inches) | 9.7992 inch |
| Height | 469.5 mm | Height (inches) | 18.4842 inch |
| Width | 600 mm | Width (inches) | 23.622 inch |
| Net weight | 17500 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 | 20 |
| | 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 51.25 A |
| Current per Maximum Power Point, max. | 41 A |
| Rated DC current per connection | Current per string, max. 41.00 A |

Enclosure

| | | | |
|---------------------|---|------------------------|-----------------------|
| Insulating material | Polyester glass-fibre reinforced, Polycarbonate | Type of mounting | 4 screws, Fixing lugs |
| Impact resistance | IK10 in accordance with IEC 62262 | Enclosure attachment | Via mounting feet |
| Protection class | II | Connection type string | Plug MC4-Evo 2 |

Creation date 14.05.2026 07:09:04 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 | Stäubli MC4-Evo 2 connector |
| | | Compatible cable cross-section | TÜV 2 Pfg1169/08.07 |
| | | Wire cross-section, min. | 2.5 mm ² |
| | | Wire cross-section, max. | 16 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 |
| | | w. wire end ferrule, DIN 46228 pt 1, max. | 1.5 mm ² |
| Number of inputs | 20 | | |

Outputs

| | | | |
|---------------------------|----------------------------------|--------------------------------|-----------------------------|
| Max. number of DC outputs | per Maximum Power Point 1 output | | |
| DC Output + & - | Wire connection | Type of connection | Stäubli MC4-Evo 2 connector |
| | | Compatible cable cross-section | TÜV 2 Pfg1169/08.07 |
| | | Wire cross-section, min. | 2.5 mm ² |
| | | Wire cross-section, max. | 16 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 | Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/PE | 1100 V |

DC load break switch

| | | | |
|--------------|----|-------------------------------|-----------|
| Voltage type | DC | Switch disconnector 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
 Combiner box for inverters with 10 MPP tracker, suitable for protecting the DC side of a photovoltaic system according to EN 51543-32. MPP1: 2 inputs, connection via MC4-Evo 2 connector, compatible with cable type TÜV 2 Pfg 1 169/08.07 / EN 50618:2063
 1 output, connection via MC4-Evo 2 connector, compatible with cable type TÜV 2 Pfg 1 169/08.07 / EN 50618:2063
 MPP2 to 10: identical to MPP1 Max. string voltage U_{oc}: 1100V
 1 class/type I + II combined arrester with signal contact
 Connection of the signal contact via cable glands (8-12mmØ) max. conductor cross-section: 1.5mm²
 Connection of the functional earth via cable glands (8-12mmØ) Conductor cross-section: 16-25mm²
 Protection class: IP65
 All built into a glass fibre reinforced polyester housing.
 Dimensions HxWxD: 469.5x600x248.9 mm
 Approval according to low voltage switchgear

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Technical data

and controlgear IEC
61439-1:2011 and EN
61439-2:2011

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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 | |

Y-Connector Cables



The Y cable is used for the parallel connection of several strings in a PV system, e.g. for splitting a line in front of an inverter. The cables are available in different connection variants.

General ordering data

| | | |
|------------|----------------------------|--|
| Type | PVHYM-M-XXXX6W+11 | Version |
| Order No. | 2877850000 | Photovoltaics, Y-Connector Cable, 1x WM4 C Female, 2x MC4 Male, 6mm², 1100 V |
| GTIN (EAN) | 4064675666417 | |
| Qty. | 1 ST | |
| Type | PVHYM+M+XXXX6W-11 | Version |
| Order No. | 2877860000 | Photovoltaics, Y-Connector Cable, 1x WM4 C Male, 2x MC4 Female, 6mm², 1100 V |
| GTIN (EAN) | 4064675666424 | |
| Qty. | 1 ST | |

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Accessories

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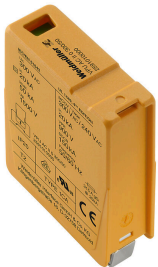
Sealing sets



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 | | |

Spare Arrester



General ordering data

| | | | |
|------------|----------------------------|--|--|
| Type | VPU PV I+II O 1000 | Version | |
| Order No. | 2530600000 | Surge voltage arrester, Low voltage, Accessories, Surge protection I / | |
| GTIN (EAN) | 4050118540819 | II, Spare arrester | |
| Qty. | 9 ST | | |
| Type | VPU PV I+II OM 1000 | Version | |
| Order No. | 2534300000 | Surge voltage arrester, Low voltage, Surge protection I / II, Spare | |
| GTIN (EAN) | 4050118545906 | arrester | |
| Qty. | 9 ST | | |