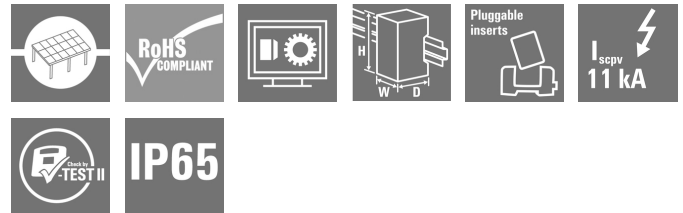


**PVN DC 2I 1O 3MPP SPD2R CG 11****Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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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 51643-32. 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, 3 MPP's, 2 Inputs / 1 Output per MPP, Surge protection II, Cable gland, 1100 V |
| Order No.         | <a href="#">2975570000</a>  |
| Type              | PVN DC 2I 1O 3MPP SPD2R CG 11   |
| GTIN (EAN)        | 4099986823167   |
| Qty.              | 1 pc(s).  |
| Replacement parts | <a href="#">2530660000</a>  |

# PVN DC 2I 10 3MPP SPD2R CG 11

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## Technical data

### Dimensions and weights

|            |        |                 |             |
|------------|--------|-----------------|-------------|
| Depth      | 132 mm | Depth (inches)  | 5.197 inch  |
| Height     | 235 mm | Height (inches) | 9.252 inch  |
| Width      | 400 mm | Width (inches)  | 15.748 inch |
| Net weight | 999 g  |                 |             |

### Temperatures

|          |                           |
|----------|---------------------------|
| Humidity | 5...95 %, no condensation |
|----------|---------------------------|

### Approvals and norms

|           |                 |
|-----------|-----------------|
| Approvals | EN 61439-2:2020 |
|-----------|-----------------|

### Guarantee

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

### Electrical characteristics

|   |                  |         |
|---|------------------|---------|
| Current per Maximum Power Point, max. 50.25 A | Rated DC voltage | 1,100 V |
|---|------------------|---------|

### Enclosure

|                               |  |                   |  |
|-------------------------------|--|-------------------|--|
| Connection type string        | Internal terminal (with cable gland feed-through)              | Cover             | removeable   |
| Enclosure attachment          | Via mounting foots   | Impact resistance | IK08 in accordance with IEC 62208, IK10 in accordance with IEC 62262 |
| Insulating material           | Polyester glass-fibre reinforced, Polycarbonate, Polycarbonate | Protection class  | II   |
| Switch disconnecter execution | no switch  | Type of mounting  | Wall mounting  |

### General data

|                       |                                       |                   |      |
|-----------------------|---------------------------------------|-------------------|------|
| Installation location | Protected outdoor area (Land and Sea) | Protection degree | IP65 |
| Standards             | EN 61439-2                            |                   |      |

### Inputs

|                                |  |           |                                   |
|--------------------------------|--|-----------|-----------------------------------|
| Amount of maximum power points | 3  | Fuse type | Neither fuse cartridge nor holder |
| Max. number of DC inputs       | per Maximum Power Point 2 inputs connected in parallel |           |                                   |

### Outputs

|                           |                                  |
|---------------------------|----------------------------------|
| Max. number of DC outputs | per Maximum Power Point 1 output |
|---------------------------|----------------------------------|

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**Technical data**
**Surge protection DC side**

|   |                |  |               |
|---|----------------|--|---------------|
| Discharge current $I_n$ (8/20 $\mu$ s)                                | 20 kA          | Discharge current, max. (8/20 $\mu$ s)             | 40 kA         |
| Maximum continuous operating voltage<br>DC UCPV mode +/-, -/PE, +/-PE | 1,100 V        | PV system voltage, max. $U_{cpv}$                  | 1,100 V       |
| Protection level $U_p$ (+/-, -/PE, +/-PE)                             | $\leq 3.8$ kV  | Protection level $U_p$ (+/-)                       | $\leq 3.8$ kV |
| Protection level $U_p$ (+/PE)   | $\leq 3.8$ kV  | Protection level $U_p$ (-/PE)                      | $\leq 3.8$ kV |
| Requirements class  | Type II        | Short-circuit current $I_{SCPv}$                   | 11,000 A      |
| Standards   | EN 61439-2     | Standby power consumption $P_c$                    | <0.2 W        |
| Surge protection DC side  | 1000 V type II | Total discharge current $I_{total}$ (8/20 $\mu$ s) | 50 kA         |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002928    | ETIM 7.0    | EC002928    |
| ETIM 8.0    | EC003857    | ETIM 9.0    | EC003857    |
| ECLASS 9.0  | 22-57-92-03 | ECLASS 9.1  | 22-57-02-90 |
| ECLASS 10.0 | 22-57-02-90 | ECLASS 11.0 | 22-57-02-92 |
| ECLASS 12.0 | 22-57-02-92 | ECLASS 13.0 | 22-57-02-92 |

**Downloads**

 Catalogues [Catalogues in PDF-format](#)

### PVN DC 2I 10 3MPP SPD2R CG 11

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## Drawings



**PVN DC 2I 10 3MPP SPD2R CG 11****Weidmüller Interface GmbH & Co. KG**

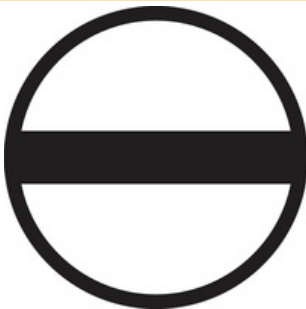
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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****PV Sun Covers****General ordering data**

|            |                            |               |
|------------|----------------------------|---------------|
| Type       | PV SUN COVER 30/19/18      | Version       |
| Order No.  | <a href="#">8000086576</a> | Photovoltaics |
| GTIN (EAN) | 4064675845164              |               |
| Qty.       | 1 pc(s).                   |               |

**Slotted screwdriver**

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

**General ordering data**

|            |                            |   |
|------------|----------------------------|---|
| Type       | SDIS 0.6X3.5X100           | Version   |
| Order No.  | <a href="#">2749810000</a> | Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm |
| GTIN (EAN) | 4050118897012              |   |
| Qty.       | 1 pc(s).                   |   |
| Type       | SDIS 1.0X5.5X125           | Version   |
| Order No.  | <a href="#">2749850000</a> | Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade thickness (A): 1 mm   |
| GTIN (EAN) | 4050118897050              |   |
| Qty.       | 1 pc(s).                   |   |

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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.  | <a href="#">1157820000</a> | Cutting tools, Cutting tool for one-hand operation |
| GTIN (EAN) | 4032248945344              |  |
| Qty.       | 1 pc(s).                   |  |

### Y-Connector Cables



The Y or X cable is used to connect three or four elements of a PV system, such as the connection between PV panels, inverters and surge protection boxes. The cables are available in different connection variants.

### General ordering data

|            |                            |   |
|------------|----------------------------|---|
| Type       | PVHYM-M-XXXX6W+15          | Version   |
| Order No.  | <a href="#">2877850000</a> | Photovoltaics, Y-Connector Cable, 1x WM4 C Female, 2x MC4 Male, |
| GTIN (EAN) | 4064675666417              | 6mm², 1500 V  |
| Qty.       | 1 pc(s).                   |   |
| Type       | PVHYM+M+XXXX6W-15          | Version   |
| Order No.  | <a href="#">2877860000</a> | Photovoltaics, Y-Connector Cable, 1x WM4 C Male, 2x MC4 Female, |
| GTIN (EAN) | 4064675666424              | 6mm², 1500 V  |
| Qty.       | 1 pc(s).                   |   |

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**Accessories****Crosshead screwdriver Phillips**

VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

**General ordering data**

|            |                            |  |
|------------|----------------------------|--|
| Type       | SDIK PH3 X 150             | Version  |
| Order No.  | <a href="#">2749910000</a> | Screwdriver, Blade width (B): 3 mm, 150 mm, Blade thickness (A): 3 |
| GTIN (EAN) | 4050118897210              |  |
| Qty.       | 1 pc(s).                   |  |

**External fixing lugs**

External attachment lugs 4-part set

**General ordering data**

|            |                            |   |
|------------|----------------------------|---|
| Type       | MF FPC                     | Version   |
| Order No.  | <a href="#">9536040000</a> | FPC (polycarbonate empty enclosure), Mounting foot, Fixing lugs,  |
| GTIN (EAN) | 4032248009442              | Height: 40 mm, Width: 19 mm, Depth: 35.5 mm, Material: Polyamide, |
| Qty.       | 1 pc(s).                   | Light Grey  |

## PVN DC 2I 10 3MPP SPD2R CG 11

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## Accessories

### SL Set PV NEXT



The **"SL SET PV NEXT"** allows the insertion of up to four cables through one cable gland whilst keeping a tight seal.

#### General ordering data

|            |                            |               |
|------------|----------------------------|---------------|
| Type       | SL SET PV NEXT             | Version       |
| Order No.  | <a href="#">2729230000</a> | Photovoltaics |
| GTIN (EAN) | 4050118804508              |               |
| Qty.       | 1 pc(s).                   |               |

### 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.  | <a href="#">2659350000</a> | Cable ties, 4.5 x 290 mm, Polyamide 66, 220 N |
| GTIN (EAN) | 4050118682816              |   |
| Qty.       | 100 pc(s).                 |   |



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[www.weidmueller.com](http://www.weidmueller.com)**Accessories****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.  | <a href="#">1190490000</a> | Photovoltaics, Plug-in connector |
| GTIN (EAN) | 4032248973262              |                                  |
| Qty.       | 1 pc(s).                   |                                  |

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|            |                            |  |
|------------|----------------------------|--|
| Type       | VPU PV II O 1000           | Version  |
| Order No.  | <a href="#">2530660000</a> | Surge voltage arrester, Low voltage, Accessories, Spare arrester |
| GTIN (EAN) | 4050118540871              |  |
| Qty.       | 9 pc(s).                   |  |