

**PVN DC 2IN/1OUTX2 2MPPT SPD1R CG 1.1KV**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



PV Next: PV-Next, PV generator junction box for combination of 1-6 strings (input and output side) and connection to the inverter. Intelligent innovative design individual for every customer application. Advanced overvoltage protection, optional fuses and switch-disconnectors for optimum operation and safety for the system. In addition, all PV generator junction boxes comply with IEC/EN 61439-2 for maximum reliability of each component.

**General ordering data**

|                   |   |
|-------------------|---|
| Version           | Photovoltaics, Combiner Box, 1100 V, 2 MPPT's, 2 Inputs / 1 Output per MPPT, Surge protection I / II, Cable gland |
| Order No.         | <a href="#">2866320000</a>  |
| Type              | PVN DC 2IN/1OUTX2 2MPPT SPD1R CG 1.1KV  |
| GTIN (EAN)        | 4064675604006   |
| Qty.              | 1 pc(s).  |
| Replacement parts | <a href="#">2530600000</a> <a href="#">2534300000</a>   |

Creation date November 18, 2022 3:22:47 PM CET

Catalogue status 18.11.2022 / We reserve the right to make technical changes.

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**Technical data**
**Dimensions and weights**

|            |         |                 |            |
|------------|---------|-----------------|------------|
| Depth      | 132 mm  | Depth (inches)  | 5.197 inch |
| Height     | 228 mm  | Height (inches) | 8.976 inch |
| Width      | 200 mm  | Width (inches)  | 7.874 inch |
| Net weight | 2,000 g |                 |            |

**Temperatures**

|                     |                 |          |                           |
|---------------------|-----------------|----------|---------------------------|
| Ambient temperature | -25 °C...+50 °C | Humidity | 5 - 90 %, no condensation |
|---------------------|-----------------|----------|---------------------------|

**Guarantee**

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

**Electrical characteristics**

|                                 |                              |                 |                        |
|---------------------------------|------------------------------|-----------------|------------------------|
| Current per MPPT, max.          | 30 A                         |                 |                        |
| Rated DC current per connection | Current per string, max.     | 30 A            |                        |
|                                 | Ambient temperature          | -25 °C...+50 °C |                        |
|                                 | Short-circuit at main output | Factor          | 1.25 * I <sub>nc</sub> |
| Duration                        |                              | 10 h            |                        |
| Rated DC voltage                | 1,100 V DC                   |                 |                        |

**Enclosure**

|                        |   |                               |   |
|------------------------|---|-------------------------------|---|
| Connection type String | Internal terminal (with cable gland feed-through) | Enclosure attachment          | Via the four holes under the cover screws |
| Insulating material    | Polyester glass-fibre reinforced, Polycarbonate   | Switch disconnecter execution | no switch                                 |
| Type of mounting       | 4 screws, Wall mounting                           |                               |   |

**General data**

|                       |   |                   |      |
|-----------------------|---|-------------------|------|
| Installation location | Protected outdoor area (>1 km from sea) | Protection degree | IP65 |
| Standards             | IEC 61439-2 ed 2.0, EN 61439-2:2011     |                   |      |

**Inputs**

|  |                 |                                |                                     |
|--|-----------------|--------------------------------|-------------------------------------|
| Amount of Maximum Power Point Tracking | 2 MPPT          |                                |                                     |
| DC Input + & -                         | Wire connection | Type of connection             | PUSH IN                             |
|  |                 | Compatible cable cross-section | EN 50618:2015, TÜV 2 Pfg 1169/08.07 |
|  |                 | Wire cross-section, min.       | 2.5 mm <sup>2</sup>                 |
|  |                 | Wire cross-section, max.       | 16 mm <sup>2</sup>                  |
|  | Cable entry     | Number of cable entries        | 4                                   |

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| Functional earth connector         | Cable entry   | Number of cable entries                   | 1                                      |
|                                    | Wire connection   | Type of connection                        | Screw connection                       |
|                                    |   | Flexible, max. H05(07) V-K                | 25 mm <sup>2</sup>                     |
|                                    | w. wire end ferrule, DIN 46228 pt 1, max.                       | 16 mm <sup>2</sup>                        |  |
| Fuse type                          | Neither fuse cartridge nor holder                               |   |  |
| Max. number of DC inputs           | per Maximum Power Point Tracking 2 inputs connected in parallel |   |  |
| Surge protection auxiliary contact | Wire connection   | Type of connection                        | Tension clamp connection with actuator |
|                                    |   | Flexible, max. H05(07) V-K                | 1.5 mm <sup>2</sup>                    |
|                                    |   | w. wire end ferrule, DIN 46228 pt 1, max. | 1.5 mm <sup>2</sup>                    |
|                                    | Cable entry   | Number of cable entries                   | 1                                      |

**Outputs**

|                 |                 |                                |                                     |
|-----------------|-----------------|--------------------------------|-------------------------------------|
| DC Output + & - | Wire connection | Type of connection             | PUSH IN                             |
|                 |                 | Compatible cable cross-section | TÜV 2 Pfg 1169/08.07, EN 50618:2015 |
|                 |                 | Wire cross-section, min.       | 2.5 mm <sup>2</sup>                 |
|                 |                 | Wire cross-section, max.       | 16 mm <sup>2</sup>                  |

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

**Surge protection DC side**

|  |               |  |                                     |
|--|---------------|--|-------------------------------------|
| Discharge current $I_n$ (8/20 $\mu$ s)               | 20 kA         | Discharge current, max. (8/20 $\mu$ s)                         | 40 kA                               |
| Lightning test current $I_{imp}$ (10/350 $\mu$ s)    | 6.25 kA       | Maximum continuous operating voltage UCPV mode +/-, -/PE, +/PE | 1,100 V DC                          |
| 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 I/II                           |
| Short-circuit current $I_{SCPV}$                     | 11,000 A      | Standards  | IEC 61439-2 ed 2.0, EN 61439-2:2011 |
| Standby power consumption $P_C$                      | $< 0.2$ W     | Total discharge current $I_{total}$ (8/20 $\mu$ s)             | 50 kA                               |
| Total discharge current $I_{total}$ (10/350 $\mu$ s) | 12.5 kA       |  |                                     |

**Classifications**

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 6.0    | EC002928    | ETIM 7.0    | EC002928    |
| ETIM 8.0    | 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 |

**Approvals**

Approvals



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**Technical data****Downloads**

White paper

[Application notes – Fact Sheet DE PV CB Wie man Gebäude gegen Blitzeinschläge schützt](#)  
[Application notes – Fact Sheet DE PV Wie man die Lebensdauer eines GAK verlängert](#)  
[Application notes – Fact Sheet DE CB PV NEXT](#)  
[Application notes – Fact Sheet EN CB PV NEXT](#)  
[Application notes – Fact Sheet EN PV How to protect buildings against lightning strikes](#)  
[Application notes – Fact Sheet EN PV How to extend the life time of a Combiner Box](#)

Catalogues

[Catalogues in PDF-format](#)

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**Drawings**

**PCB design**

