Pre-wired combiner boxes
Page 38-56

Surge protection
- for photovoltaic systems
- for data and communication devices
Page 58-84

WM4 photovoltaic connector
Page 12-14

Modular terminals
- Fuse terminals
- Feed-through terminals
- PE terminals
- Diode terminals
- Bolt-type screw terminals
- Supply terminals
Page 86-114
A perfect solution for every customer’s requirements

Combiner boxes are located between the solar panels and the inverter. They join the generated electrical currents together. Weidmüller has developed many standard configurations of combiner boxes based upon recurring customer requirements. These serve not only as an optimal connection system, but also as a reliable protection and monitoring system. The range includes solutions for use in roof-mounted systems up to large solar farms.

Specially designed to meet the individual architecture of large systems customer-specific solutions can be implemented where required, quickly and safely.

Turnkey delivery
We deliver turnkey Plug-&-Play solutions that are ready for installation – making the assembly and installation process as smooth and quick as possible.

From roof-tops to solar farms
The combiner boxes are available in various configurations for connecting 1 to 16 strings.
Pre-wired combiner boxes

Optimally equipped
Weidmüller offers complete solutions for different requirements. Depending on the version the boxes can contain terminal blocks, surge protection, fuses and switch-disconnectors and even systems that permanently monitor the performance of the strings.

Individual solutions
Be it a minor modification or a whole new individual product development, our application specialists develop and realise a tailored solution matching your individual requirements. Talk to us!

IP 66
Depending on the version the boxes can be protected up to IP 66 which ensures that they are safe to use outdoors.
The quick and optimum solution for roof mounted and industrial installations

The highest possible returns with the longest possible service life – this is the aim of every photovoltaic system operator. To achieve this target an efficient and error-free facility is essential. To protect photovoltaic plants, Weidmüller offers combiner boxes with surge protection components that can also be fitted with further functional components depending on the requirement.

Safety and system availability

In a photovoltaic system, the individual modules are connected together in series in so-called strings, that then go into combiner boxes which are fitted between the panels and the inverter. The strings of panels are joined together in combiner boxes and connected with DC main cabling, this then takes the electricity to the inverter.

As well as combining the strings, the combiner boxes can carry out various functions, including load isolation, surge protection and even permanent performance monitoring of individual strings or groups of strings.

Due to being configured with protection and monitoring components, a combiner box makes a major contribution to ensuring the system is efficient and fault-free. The system operator profits from higher returns and the longest possible service life of the system.
**Pre-wired combiner boxes**

**Designed, manufactured and 100% tested in accordance with EN 61439-2**

In the combiner boxes terminal blocks are used which Weidmüller has tested and approved using a special partial discharge test with DC voltage for 1,000 V DC applications. The surge protection components are also tested for use with 1,000 V DC, and effectively reduce interference-coupling caused by surge voltages.

All combiner boxes are tested and certified at Weidmüller’s central laboratory according to EN 61439-2 for power switchgear and controlgear assemblies. They are also 100% tested after assembly.

This makes our installation-ready, plug-and-play solution the perfect system for connecting and protecting solar projects throughout Europe and beyond.

**Solutions for all needs**

Based on the comprehensive Weidmüller product range, the combiner boxes are offered with different equipment installed. Significant equipment features are fuse-holder terminals and terminal blocks, surge protection, load-break switches, cable connection technology and modules for monitoring the performance of the strings.

---

**Fuse-holder terminals and terminal blocks**

Specially for use in the PV area, Weidmüller offers terminals that have passed a certain insulation test. It is ensured that the terminals can withstand a voltage of 1,000 V DC under all climatic conditions. More information about the terminal blocks can be found from page 86.

**Surge protection**

The surge protection with pluggable high-power varistors can be used in voltage ranges up to 1,000 V and therefore meets the higher demands of photovoltaic systems. More information about surge protection can be found from page 58.

**Switch-disconnectors**

To isolate the DC side of a PV system, switch-disconnectors from other manufacturers are used. For repair and maintenance tasks, the voltage to the inverter can be turned off.

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**Cable connection technology**

Depending on the version, the combiner boxes are delivered with cable glands or with WM4 PV connectors. The WM4 is compatible with all commonly available plug profiles and permits a quick and secure connection. More information about WM4 can be found from page 12.

**String performance monitoring**

The Transclinic xi+ device series continuously detects the current from individual strings or groups of strings and the voltage. Negative influences, which lead to reduced output, can be detected immediately. More information about Transclinic xi+ can be found from page 28.
### DC combiner boxes – product overview

<table>
<thead>
<tr>
<th>Number of strings</th>
<th>Rated DC voltage</th>
<th>Rated DC current per input</th>
<th>Degree of protection</th>
<th>Surge protection</th>
<th>DC switch-disconnector</th>
<th>Fuse holder for string wire protection</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1,000 V DC</td>
<td>30 A</td>
<td>IP 66</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>1,000 V DC</td>
<td>30 A</td>
<td>IP 66</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1+1 (for 2 MPPT)</td>
<td>1,000 V DC</td>
<td>30 A</td>
<td>IP 66</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1+1 (for 2 MPPT)</td>
<td>1,000 V DC</td>
<td>30 A</td>
<td>IP 66</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2+2 (for 2 MPPT)</td>
<td>1,000 V DC</td>
<td>10 A</td>
<td>IP 44</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>2+2+2 (for 3 MPPT)</td>
<td>1,000 V DC</td>
<td>10 A</td>
<td>IP 44</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1,000 V DC</td>
<td>12 A</td>
<td>IP 66</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1,000 V DC</td>
<td>10 A</td>
<td>IP 66</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>1,000 V DC</td>
<td>10 A</td>
<td>IP 66</td>
<td>●</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1,000 V DC</td>
<td>11 A</td>
<td>IP 66</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>1,000 V DC</td>
<td>11 A</td>
<td>IP 66</td>
<td>●</td>
<td>●</td>
<td></td>
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<tr>
<td>4</td>
<td>1,000 V DC</td>
<td>11 A</td>
<td>IP 44</td>
<td>●</td>
<td>●</td>
<td></td>
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<tr>
<td>4+2 (for 2 MPPT)</td>
<td>1,000 V DC</td>
<td>8 A</td>
<td>IP 44</td>
<td>●</td>
<td>●</td>
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<tr>
<td>8</td>
<td>1,000 V DC</td>
<td>12 A</td>
<td>IP 55</td>
<td>●</td>
<td>●</td>
<td></td>
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<tr>
<td>8</td>
<td>1,000 V DC</td>
<td>15 A</td>
<td>IP 55</td>
<td>●</td>
<td>●</td>
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<tr>
<td>12</td>
<td>1,000 V DC</td>
<td>13.3 A</td>
<td>IP 55</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>1,000 V DC</td>
<td>11.4 A</td>
<td>IP 55</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>1,000 V DC</td>
<td>10 A</td>
<td>IP 55</td>
<td>●</td>
<td>●</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>1,000 V DC</td>
<td>10 A</td>
<td>IP 55</td>
<td>●</td>
<td>●</td>
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</tr>
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</table>

### AC combiner boxes – product overview

<table>
<thead>
<tr>
<th>Number of phases</th>
<th>Rated AC voltage</th>
<th>Rated AC current</th>
<th>Degree of protection</th>
<th>Surge protection</th>
<th>Cable gland (CG)/WM4 plug-in connector</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 x single-phase</td>
<td>230 V AC</td>
<td>16 A</td>
<td>IP 66</td>
<td>●</td>
<td>CG</td>
</tr>
<tr>
<td>1 x single-phase</td>
<td>230 V AC</td>
<td>20 A</td>
<td>IP 66</td>
<td>●</td>
<td>CG</td>
</tr>
<tr>
<td>1 x single-phase</td>
<td>230 V AC</td>
<td>25 A</td>
<td>IP 66</td>
<td>●</td>
<td>CG</td>
</tr>
<tr>
<td>1 x single-phase</td>
<td>230 V AC</td>
<td>32 A</td>
<td>IP 66</td>
<td>●</td>
<td>CG</td>
</tr>
<tr>
<td>1 x single-phase</td>
<td>230 V AC</td>
<td>16 A</td>
<td>IP 66</td>
<td>●</td>
<td>CG</td>
</tr>
<tr>
<td>1 x single-phase</td>
<td>230 V AC</td>
<td>20 A</td>
<td>IP 66</td>
<td>●</td>
<td>CG</td>
</tr>
<tr>
<td>1 x single-phase</td>
<td>230 V AC</td>
<td>25 A</td>
<td>IP 66</td>
<td>●</td>
<td>CG</td>
</tr>
<tr>
<td>1 x single-phase</td>
<td>230 V AC</td>
<td>32 A</td>
<td>IP 66</td>
<td>●</td>
<td>CG</td>
</tr>
<tr>
<td>1 x three-phase</td>
<td>230 / 400 V AC</td>
<td>32 A</td>
<td>IP 66</td>
<td>●</td>
<td>CG</td>
</tr>
</tbody>
</table>
## Pre-wired combiner boxes

### Cable gland (CG)/WM4 plug-in connector

<table>
<thead>
<tr>
<th>String monitoring</th>
<th>Part No:</th>
<th>Part designation</th>
<th>Technical data on page</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG</td>
<td>7504811010</td>
<td>PV DC 1N SPD CG 1,000 V</td>
<td>44</td>
</tr>
<tr>
<td>WM 4</td>
<td>7504811001</td>
<td>PV DC 1N SPD WM4 1,000 V</td>
<td>44</td>
</tr>
<tr>
<td>CG</td>
<td>7504811011</td>
<td>PV DC 1Nx2 2MPPT 2SPD CG 1,000 V</td>
<td>45</td>
</tr>
<tr>
<td>WM 4</td>
<td>7504811002</td>
<td>PV DC 1Nx2 2MPPT 2SPD WM4 1,000 V</td>
<td>45</td>
</tr>
<tr>
<td>CG</td>
<td>7504811012</td>
<td>PV DC 2Nx3 3SPD CG 1,000 V</td>
<td>46</td>
</tr>
<tr>
<td>WM 4</td>
<td>7504811013</td>
<td>PV DC 2Nx3 3SPD WM4 1,000 V</td>
<td>46</td>
</tr>
<tr>
<td>CG</td>
<td>7504811014</td>
<td>PV DC 3N SPD CG 1,000 V</td>
<td>46</td>
</tr>
<tr>
<td>WM 4</td>
<td>7504811005</td>
<td>PV DC 3N SPD WM4 1,000 V</td>
<td>47</td>
</tr>
<tr>
<td>CG</td>
<td>7504811015</td>
<td>PV DC 3N SPD CG 1,000 V</td>
<td>47</td>
</tr>
<tr>
<td>WM 4</td>
<td>7504811006</td>
<td>PV DC 3N SPD WM4 600 V</td>
<td>47</td>
</tr>
<tr>
<td>CG</td>
<td>7504811016</td>
<td>PV DC 4N SPD CG 1,000 V</td>
<td>48</td>
</tr>
<tr>
<td>WM 4 (inputs) / CG (outputs)</td>
<td>7504811007</td>
<td>PV DC 4N SPD WM4 1,000 V</td>
<td>49</td>
</tr>
<tr>
<td>CG</td>
<td>7504811008</td>
<td>PV DC 4+2N SPD CG 4+1,000 V</td>
<td>49</td>
</tr>
<tr>
<td>CG</td>
<td>7504813008</td>
<td>PV DC 4+2IN SPD FH 2SPD CG 1,000 V</td>
<td>49</td>
</tr>
<tr>
<td>CG</td>
<td>7504813009</td>
<td>PV DC 8IN SPD CG 1,000 V</td>
<td>49</td>
</tr>
<tr>
<td>CG</td>
<td>7504813010</td>
<td>PV DC 8IN SPD CG 8+1,000 V</td>
<td>50</td>
</tr>
<tr>
<td>CG</td>
<td>7504813011</td>
<td>PV DC 12IN SPD CG 1,000 V</td>
<td>50</td>
</tr>
<tr>
<td>CG</td>
<td>7504813012</td>
<td>PV DC 14IN SPD CG 14+1,000 V</td>
<td>51</td>
</tr>
<tr>
<td>CG</td>
<td>7504813013</td>
<td>PV DC 16IN SPD CG 1,000 V</td>
<td>51</td>
</tr>
<tr>
<td>CG</td>
<td>7504813014</td>
<td>PV DC 16IN SPD CG 2x8+1,000 V</td>
<td>51</td>
</tr>
</tbody>
</table>

### AC switch-disconnector (RCBO or RCD+MCB)

<table>
<thead>
<tr>
<th>Part No:</th>
<th>Part designation</th>
<th>Technical data on page</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCBO: In=16A, 1P+N, Type A, curve C, IΔn=30mA (EN 61009-1)</td>
<td>7504812007</td>
<td>PV AC 1N SW 230/16/30mA SPD CG</td>
</tr>
<tr>
<td>RCBO: In=20A, 1P+N, Type A, curve C, IΔn=30mA (EN 61009-1)</td>
<td>7504812008</td>
<td>PV AC 1N SW 230/20/30mA SPD CG</td>
</tr>
<tr>
<td>RCBO: In=25A, 1P+N, Type A, curve C, IΔn=30mA (EN 61009-1)</td>
<td>7504812005</td>
<td>PV AC 1N SW 230/25/30mA SPD CG</td>
</tr>
<tr>
<td>RCBO: In=32A, 1P+N, Type A, curve C, IΔn=30mA (EN 61009-1)</td>
<td>7504812009</td>
<td>PV AC 1N SW 230/32/30mA SPD CG</td>
</tr>
<tr>
<td>RCBO: In=16A, 1P+N, Type A, curve C, IΔn=300mA (EN 61009-1)</td>
<td>7504812002</td>
<td>PV AC 1N SW 230/16/300mA SPD CG</td>
</tr>
<tr>
<td>RCBO: In=20A, 1P+N, Type A, curve C, IΔn=300mA (EN 61009-1)</td>
<td>7504812003</td>
<td>PV AC 1N SW 230/20/300mA SPD CG</td>
</tr>
<tr>
<td>RCBO: In=25A, 1P+N, Type A, curve C, IΔn=300mA (EN 61009-1)</td>
<td>7504812006</td>
<td>PV AC 1N SW 230/25/300mA SPD CG</td>
</tr>
<tr>
<td>RCBO: In=32A, 1P+N, Type A, curve C, IΔn=300mA (EN 61009-1)</td>
<td>7504812004</td>
<td>PV AC 1N SW 230/32/300mA SPD CG</td>
</tr>
<tr>
<td>RCD: In=40A, 4P, Type A, IΔn=300mA (EN 61008-1) MCB: In=32 A, 4P, curve C (EN 60898-1)</td>
<td>7504814001</td>
<td>PV AC 1N 3P SW 230/32/300mA SPD CG</td>
</tr>
</tbody>
</table>
## Technical data

### Enclosures
- **Dimensions (H/W/D):** 190 x 184 x 106 mm
- **Attachment method:** Direct wall mounting with mounting lugs
- **Degree of protection (according to EN 60529):** IP66

### Electrical properties
- **Max. open circuit DC voltage:** 1,000 V DC
- **Max. DC short circuit current per input:** 30 A DC
- **DC breaking and making capacity (according to EN 60947-3):** –
- **Earthing (DC):** Floating positive and negative
- **Surge protection DC side:** PU II 2+1 1,000 V/40 kA, without auxiliary contact
- **Surge protection AC side:** –
- **Surge protection RS-485 side (string monitoring):** –

### Inputs
- **Number of DC inputs (plus and minus = one input):** 1
- **Connection DC input cables (+) to:** WDU 10 (1.5 - 16 mm²)
- **Connection DC input cables (-) to:** WDU 10 (1.5 - 16 mm²)
- **Entrance DC input cables through:** M16 cable gland, IP67, Ø: 5-10 mm
- **Fuses:** neither fuse-links nor fuse-holders
- **Location of fuses:** –

### Outputs
- **Number of DC outputs (plus and minus = one output):** 1
- **Connection DC output cables to:** WDU 10 (1.5 - 16 mm²)
- **Exit DC output cables through:** M16 cable gland, IP67, Ø: 5-10 mm
- **Switch-disconnector with auxiliary contact:** –
- **Connection aux. contact of switch-disconnector to:** –
- **Connection aux. contact of surge protector to:** –

### String monitoring
- **Monitoring of input current, voltage and temperature:** –
- **Type of monitoring:** –
- **Power supply:** –

### Norms and standards
- **EN 61439-2, Protection class II**

## Ordering data

<table>
<thead>
<tr>
<th>Type</th>
<th>Qty.</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PV DC 1IN SPD CG 1,000 V</td>
<td>1</td>
<td>7504811010</td>
</tr>
<tr>
<td>PV DC 1IN SPD WM4 1,000 V</td>
<td>1</td>
<td>7504811001</td>
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</table>

### Note

- **Ordering data:**
  - **Type:** PV DC 1IN SPD CG 1,000 V
  - **Qty.:** 1
  - **Order No.:** 7504811010
  - **Type:** PV DC 1IN SPD WM4 1,000 V
  - **Qty.:** 1
  - **Order No.:** 7504811001

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Note
<table>
<thead>
<tr>
<th>Type</th>
<th>Qty.</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PV DC 1INx2 2MPPT 2SPD CG 1,000 V</td>
<td>1</td>
<td>7504811011</td>
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<tr>
<td>PV DC 1INx2 2MPPT WM4 1,000 V</td>
<td>1</td>
<td>7504811002</td>
</tr>
<tr>
<td>PV DC 2INx2 2SW 2MPPT 2SPD CG 1,000 V</td>
<td>1</td>
<td>7504811012</td>
</tr>
</tbody>
</table>

**Pre-wired combiner boxes**

- **PV DC 1INx2 2MPPT 2SPD CG 1,000 V**
  - 250 x 256 x 140 mm
  - Direct wall mounting with mounting lugs
  - IP66
  - 1,000 V DC
  - 30 A DC
  - Floating positive and negative
  - FLP 2+1 1,000 V/40 kA, without auxiliary contact
  - 1+1 (for inverters with 2 MPPT)
  - WDU10 (1.5 - 16 mm²)
  - M16 cable gland, IP67, Ø: 5-10 mm
  - neither fuse-links nor fuse-holders
  - 1+1 (for inverters with 2 MPPT)
  - WDU10 (1.5 - 16 mm²)
  - M16 cable gland, IP67, Ø: 5-10 mm
  - neither fuse-links nor fuse-holders
  - EN 61439-2, Protection class II

- **PV DC 1INx2 2MPPT WM4 1,000 V**
  - 250 x 256 x 140 mm
  - Direct wall mounting with mounting lugs
  - IP66
  - 1,000 V DC
  - 30 A DC
  - Floating positive and negative
  - FLP 2+1 1,000 V/40 kA, without auxiliary contact
  - 1+1 (for inverters with 2 MPPT)
  - WDU10 (1.5 - 16 mm²)
  - M16 cable gland, IP67, Ø: 5-10 mm
  - neither fuse-links nor fuse-holders
  - 1+1 (for inverters with 2 MPPT)
  - WDU10 (1.5 - 16 mm²)
  - M16 cable gland, IP67, Ø: 5-10 mm
  - neither fuse-links nor fuse-holders
  - WM4 connector
  - WM4 connector
  - neither fuse-links nor fuse-holders
  - EN 61439-2, Protection class II

- **PV DC 2INx2 2SW 2MPPT 2SPD CG 1,000 V**
  - 360 x 360 x 171 mm
  - Direct wall mounting with mounting lugs
  - IP44
  - 1,000 V DC
  - 10 A DC
  - Floating positive and negative
  - FLP 2+1 1,000 V/40 kA, without auxiliary contact
  - 2 x 32 A (DC21B 1,000 V)
  - Floating positive and negative
  - FLP 2+1 1,000 V/40 kA, without auxiliary contact
  - 2+2 (for inverters with 2 MPPT)
  - WDU10 (1.5 - 16 mm²)
  - WDU10 (1.5 - 16 mm²)
  - M16 cable gland, IP67, Ø: 5-10 mm
  - neither fuse-links nor fuse-holders
  - 1+1 (for inverters with 2 MPPT)
  - WDU10 (1.5 - 16 mm²)
  - M20 cable gland, IP67, Ø: 6-12 mm
  - no
  - no
  - no
  - no
  - EN 61439-2, Protection class II
Pre-wired combiner boxes

Technical data

Enclosures
Dimensions (H/W/D) 360 x 540 x 171 mm
Attachment method Direct wall mounting with mounting lugs
Degree of protection (according to EN 60529) IP44

Electrical properties
Max. open circuit DC voltage 1,000 V DC
Max. DC short circuit current per input 10 A DC
DC breaking and making capacity (according to EN 60947-3) 3 x 32 A (DC 1,000 V)
Surge protection DC side Floating positive and negative
Surge protection AC side
Surge protection RS-485 side (string monitoring)

Inputs
Number of DC inputs (plus and minus = one input) 2+2+2 (for inverters with 3 MPPT)
Connection DC input cables (+) to WDU 10 (1.5 - 16 mm²)
Connection DC input cables (-) to WDU 10 (1.5 - 16 mm²)
Entrance DC input cables through M16 cable gland, IP67, Ø: 5-10 mm
Fuses neither fuse-links nor fuse-holders
Location of fuses

Outputs
Number of DC outputs (plus and minus = one output) 1+1+1 (for inverters with 3 MPPT)
Connection DC output cables to WDU 16 (1.5 - 16 mm²)
Exit DC output cables through M20 cable gland, IP67, Ø: 6-12 mm
Switch-disconnector with auxiliary contact no
Connection aux. contact of switch-disconnector to –
Connection aux. contact of surge protector to –

String monitoring
Monitoring of input current, voltage and temperature –
Type of monitoring –
Power supply –
Norms and standards EN 61439-2, Protection class II

Ordering data

<table>
<thead>
<tr>
<th>Type</th>
<th>Qty.</th>
<th>Order No.</th>
</tr>
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<tbody>
<tr>
<td>PV DC 2INx3 3MPPT 3SPD CG 1,000 V</td>
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Note

Note
### PV DC 3IN SPD WM4 1,000 V

- Dimensions: 250 x 256 x 140 mm
- Direct wall mounting with mounting lugs
- 1,000 V DC
- 10 A DC
- Floating positive and negative
- PU II 2x1 1,000 V/40 kA, without auxiliary contact
- 3
- WM4 connector
- Neither fuse-links nor fuse-holders
- 1
- WM4 connector
- EN 61439-2, Protection class II

### PV DC 3IN SW SPD CG 1,000 V

- Dimensions: 250 x 328 x 140 mm
- Direct wall mounting with mounting lugs
- 1,000 V DC
- 10 A DC
- Floating positive and negative
- PU II 2x1 1,000 V/40 kA, without auxiliary contact
- 3
- M16 cable gland, IP67, Ø: 5-10 mm
- Neither fuse-links nor fuse-holders
- 1
- WDU 16N (1,5 - 16 mm²)
- M20 cable gland, IP67, Ø: 6-12 mm
- EN 61439-2, Protection class II

### PV DC 3IN SW SPD WM4 600V

- Dimensions: 250 x 256 x 140 mm
- Direct wall mounting with mounting lugs
- 600 V DC
- 10 A DC
- Floating positive and negative
- PU II 2x1 1,000 V/40 kA, without auxiliary contact
- 3
- WM4 connector
- Neither fuse-links nor fuse-holders
- 1
- WM4 connector
- EN 61439-2, Protection class II

<table>
<thead>
<tr>
<th>Type</th>
<th>Qty.</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PV DC 3IN SPD WM4 1,000 V</td>
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<td>7504811005</td>
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<tr>
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<tr>
<td>PV DC 3IN SW SPD WM4 600V</td>
<td>1</td>
<td>7504811006</td>
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</tbody>
</table>
Pre-wired combiner boxes

---

**Technical data**

**Enclosures**
- Dimensions (H/W/D): 400 x 256 x 140 mm, 540 x 540 x 171 mm
- Attachment method: Direct wall mounting with mounting lugs
- Degree of protection (according to EN 60529): IP66, IP44

**Electrical properties**
- Max. open circuit DC voltage: 1,000 V DC
- Max. DC short circuit current per input: 11 A DC
- DC breaking and making capacity (according to EN 60947-3): 45 A (DC21B 1,000 V)
- Surge protection DC side: Floating positive and negative
- Surge protection AC side: Floating positive and negative
- Surge protection RS-485 side (string monitoring): PU II 2+1 1,000 V/40 kA, without auxiliary contact
- Earthing (DC): Floating positive and negative
- Surge protection (AC side): PU II 1+1R 280 V/40 kA, auxiliary contact
- Surge protection (RS-485 side): PU II 2+1R 1,000 V/40 kA, auxiliary contact
- Surge protection (RS-485 side): yes, without auxiliary contact
- Surge protection (RS-485 side): no, with auxiliary contact

**Inputs**
- Number of DC inputs (plus and minus = one input): 4
- Connection DC input cables (+) to: WSI 25/1 fuse holder (0.75 mm² - 25 mm²)
- Connection DC input cables (-) to: WSI 25/1 fuse holder (0.75 mm² - 25 mm²)
- Entrance DC input cables through: M16 cable gland, IP67, Ø: 5-10 mm
- Location of fuses: Positive and negative inputs

**Outputs**
- Number of DC outputs (plus and minus = one output): 1
- Connection DC output cables to: WDU 35N (2.5 - 35 mm²)
- Exit DC output cables through: M20 cable gland, IP67, Ø: 10-14 mm
- Switch-disconnector with auxiliary contact: no
- Connection aux. contact of switch-disconnector to: at the digital input of the Transclinic xi+
- Connection aux. contact of surge protector to: no
- String monitoring: yes

**Power supply**
- 85-264 Vac -> 24 Vdc (ref. 8739140000)

**Norms and standards**
- EN 61439-2, Protection class II

---

**Ordering data**

<table>
<thead>
<tr>
<th>Type</th>
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<tbody>
<tr>
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<td>7504811012</td>
</tr>
<tr>
<td>PV DC 4IN SW FH SPD CG 4i+ 1,000 V</td>
<td>1</td>
<td>7504811009</td>
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</tbody>
</table>

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**Note**

- Pre-wired combiner boxes
### Pre-wired combiner boxes

<table>
<thead>
<tr>
<th>Type</th>
<th>Qty.</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PV DC 4IN SW FH SPD WM4 1,000 V</td>
<td>1</td>
<td>7504811007</td>
</tr>
<tr>
<td>PV DC 4+2IN 2SW 2MPPT FH 2SPD CG 1,000 V</td>
<td>1</td>
<td>7504813008</td>
</tr>
<tr>
<td>PV DC 8IN SW FH SPD CG 1,000 V</td>
<td>1</td>
<td>7504813009</td>
</tr>
</tbody>
</table>

### Specifications

- **PV DC 4IN SW FH SPD WM4 1,000 V**
  - Dimensions: 400 x 328 x 140 mm
  - Direct wall mounting with mounting lugs
  - Type: IP66
  - 1,000 V DC
  - 11 A DC
  - 45 A (DC21B 1,000 V)
  - Floating positive and negative
  - PU II 2+1 1,000 V/40 kA, without auxiliary contact
  - 4
  - **WM4 connector**
    - Empty fuse holders
    - Positive and negative inputs
  - WDU 35N (2.5 - 35 mm²)
  - M20 cable gland, IP67, Ø: 10-14 mm
  - EN 61439-2, Protection class II
  - **Type Qty. Order No.**
    - PV DC 4IN SW FH SPD WM4 1,000 V 1 7504811007

- **PV DC 4+2IN 2SW 2MPPT FH 2SPD CG 1,000 V**
  - Dimensions: 540 x 360 x 171 mm
  - Direct wall mounting with mounting lugs
  - Type: IP44
  - 1,000 V DC
  - 8.0 A + 6.25 A DC when 4+2 inputs are used
  - 10.6 A + 12.5 A DC when 3+1 inputs are used
  - 32 A (DC21A 1,000 V) - 16 A (DC21A 1,000 V)
  - Floating positive and negative
  - 2 x PU II 2+1 1,000 V/40 kA, without auxiliary contact
  - 4+2 (for inverters with 2 MPPT)
  - WSI 25/1 fuse holder (0.75 mm² - 25 mm²) / WDU 10 (1.5 - 16 mm²)
  - WSI 25/1 fuse holder (0.75 mm² - 25 mm²) / WDU 15 (1.5 - 16 mm²)
  - M16 cable gland, IP67, Ø: 5-10 mm
  - Empty fuse holders on 1st MPPT/no fuse holders on 2nd MPPT
  - Positive and negative inputs only for one MPPT
  - 1+1 (for inverters with 2 MPPT)
  - WFF 35 (< 55 mm²)
  - M25 cable gland, IP67, Ø: 13-18 mm
  - No
  - **Type Qty. Order No.**
    - PV DC 4+2IN 2SW 2MPPT FH 2SPD CG 1,000 V 1 7504813008

- **PV DC 8IN SW FH SPD CG 1,000 V**
  - Dimensions: 600 x 500 x 230 mm
  - Mounting lugs
  - Type: IP55
  - 1,000 V DC
  - 12 A DC
  - 160 A (DC21B 1,000 V)
  - Floating positive and negative
  - PU II 2+1 1,000 V/40 kA, without auxiliary contact
  - 8
  - WSI 25/1 fuse holder (0.75 mm² - 25 mm²)
  - WSI 25/1 fuse holder (0.75 mm² - 25 mm²)
  - M16 cable gland, IP67, Ø: 5-10 mm
  - Empty fuse holders
  - Positive and negative inputs
  - 1
  - WFF 70 (< 55 mm²)
  - M25 cable gland, IP67, Ø: 13-18 mm
  - No
  - **Type Qty. Order No.**
    - PV DC 8IN SW FH SPD CG 1,000 V 1 7504813009
Pre-wired combiner boxes

---

**PV DC 8IN SW FH SPD CG 8i+ 1,000 V**

**PV DC 12IN SW FH SPD CG 1,000 V**

---

**Technical data**

**Enclosures**
- Dimensions (H/W/D): 800 x 600 x 300 mm
- Attachment method: Mounting lugs
- Degree of protection (according to EN 60529): IP55

**Electrical properties**
- Max. open circuit DC voltage: 1,000 V
- Max. DC short circuit current per input: 15 A
- DC breaking and making capacity (according to EN 60947-3): 160 A (DC21B 1,000 V)
- Surge protection DC side: Floating positive and negative
- Surge protection AC side: Floating positive and negative
- Surge protection RS-485 side (string monitoring): yes, without auxiliary contact

**Inputs**
- Number of DC inputs (plus and minus = one input): 8
- Connection DC input cables (+) to: WSI 25/1 fuse holder (0,75 mm² - 25 mm²)
- Connection DC input cables (-) to: WSI 25/1 fuse holder (0,75 mm² - 25 mm²)
- Entrance DC input cables through: M16 cable gland, IP67, Ø: 5-10 mm
- Fuses: empty fuse holders
  - Location of fuses: positive and negative inputs

**Outputs**
- Number of DC outputs (plus and minus = one output): 1
- Connection DC output cables to: WFF 70 (< 95 mm²)
- Exit DC output cables through: M25 cable gland, IP67, Ø: 13-18 mm
- Switch-disconnector with auxiliary contact: yes
- Connection aux. contact of switch-disconnector to: at the digital input of the Transclinic xi+
- Connection aux. contact of surge protector to: at the digital input of the Transclinic xi+

**String monitoring**
- Monitoring of input current, voltage and temperature: Transclinic 8+
- Type of monitoring: Individual inputs

**Power supply**
- 85-264 Vac -> 24 Vdc (ref. 8739140000)

**Norms and standards**
- EN 61439-2, Protection class II

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**Note**

**Ordering data**

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<th>Type</th>
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<tbody>
<tr>
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**Note**

Pre-wired combiner boxes
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<tr>
<th>PV DC 14IN SW FH SPD CG 14i+ 1,000 V</th>
<th>PV DC 16IN SW FH SPD CG 1,000 V</th>
<th>PV DC 16IN SW FH SPD CG 2x8i+ 1,000 V</th>
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<tbody>
<tr>
<td>1,000 x 750 x 300 mm</td>
<td>800 x 600 x 300 mm</td>
<td>1,000 x 750 x 300 mm</td>
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<tr>
<td>Mounting lugs</td>
<td>Mounting lugs</td>
<td>Mounting lugs</td>
</tr>
<tr>
<td>IP55</td>
<td>IP55</td>
<td>IP55</td>
</tr>
<tr>
<td>1,000 V DC</td>
<td>1,000 V DC</td>
<td>1,000 V DC</td>
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<tr>
<td>11.4 A DC</td>
<td>15 A DC</td>
<td>15 A DC</td>
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<tr>
<td>160 A (DC21B, 1,000 V)</td>
<td>250 A (DC21B, 1,000 V)</td>
<td>250 A (DC21B, 1,000 V)</td>
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<td>Floating positive and negative</td>
<td>Floating positive and negative</td>
<td>Floating positive and negative</td>
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<tr>
<td>PU II 2+1R 1,000 V/40 kA, auxiliary contact</td>
<td>PU II 2+1 10,000 V/40 kA, without auxiliary contact</td>
<td>PU II 2+1R 1,000 V/40 kA, auxiliary contact</td>
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<tr>
<td>yes, without auxiliary contact</td>
<td>yes, without auxiliary contact</td>
<td>yes, without auxiliary contact</td>
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<tr>
<td>16</td>
<td>16</td>
<td>16</td>
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<tr>
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<td>WS2 25/1 fuse holder (0.75 mm² - 25 mm²)</td>
<td>WS2 25/1 fuse holder (0.75 mm² - 25 mm²)</td>
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<tr>
<td>M16 cable gland, IP67, Ø: 5-10 mm</td>
<td>M16 cable gland, IP67, Ø: 5-10 mm</td>
<td>M16 cable gland, IP67, Ø: 5-10 mm</td>
</tr>
<tr>
<td>empty fuse holders</td>
<td>empty fuse holders</td>
<td>empty fuse holders</td>
</tr>
<tr>
<td>positive and negative inputs</td>
<td>positive and negative inputs</td>
<td>positive and negative inputs</td>
</tr>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>WFF 120 (&lt; 150 mm²)</td>
<td>M32 cable gland, IP67, Ø: 18-25 mm</td>
<td>WFF 120 (&lt; 150 mm²)</td>
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<tr>
<td>yes</td>
<td>yes</td>
<td>yes</td>
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<tr>
<td>at the digital input of the Transclinic xi+</td>
<td>at the digital input of the Transclinic xi+</td>
<td>at the digital input of the Transclinic xi+</td>
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<td>Transclinic 14i+</td>
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<tr>
<td>Individual inputs</td>
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<td>85-264 Vac → 24 Vdc (ref. 8739140000)</td>
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<tbody>
<tr>
<td>PV DC 14IN SW FH SPD CG 14i+ 1,000 V</td>
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<tr>
<td>PV DC 16IN SW FH SPD CG 1,000 V</td>
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<td>7504813011</td>
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<tr>
<td>PV DC 16IN SW FH SPD CG 2x8i+ 1,000 V</td>
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<td>7504813004</td>
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</table>
### Technical data

<table>
<thead>
<tr>
<th>Enclosures</th>
<th>Dimensions (H/W/D)</th>
<th>Direct wall mounting with mounting lugs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>190 x 184 x 106 mm</td>
<td>P66</td>
</tr>
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<table>
<thead>
<tr>
<th>Electrical properties</th>
<th>Rated AC voltage (Un)</th>
<th>230 V AC</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>16 A AC</td>
<td></td>
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<table>
<thead>
<tr>
<th>Residual current AC circuit-breaker (RCD) / Residual current AC circuit breaker with overcurrent protection (RCBO)</th>
<th>Thermal magnetic AC circuit breaker</th>
</tr>
</thead>
<tbody>
<tr>
<td>RCBO: In=16A, 1P+N, Type A, curve C, IΔn=30mA (EN 61009-1)</td>
<td>RCBO</td>
</tr>
<tr>
<td>RCBO: In=20A, 1P+N, Type A, curve C, IΔn=30mA (EN 61009-1)</td>
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<table>
<thead>
<tr>
<th>Earthing (AC)</th>
<th>Earthing (AC)</th>
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<table>
<thead>
<tr>
<th>Surge protection AC side</th>
<th>Surge protection AC side</th>
</tr>
</thead>
<tbody>
<tr>
<td>PU II 1+1 280 V/40 kA, without auxiliary contact</td>
<td>PU II 1+1 280 V/40 kA, without auxiliary contact</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Inputs</th>
<th>Outputs</th>
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<tbody>
<tr>
<td>Number of AC inputs, inverter side</td>
<td>Number of AC outputs, grid side</td>
</tr>
<tr>
<td>Connection inverter side AC input cables to</td>
<td>Connection grid side AC output cables to</td>
</tr>
<tr>
<td>Entrance inverter side AC input cables through</td>
<td>Exit grid side AC output cables through</td>
</tr>
<tr>
<td>Entrance inverter side AC input cables through</td>
<td>Exit grid side AC output cables through</td>
</tr>
<tr>
<td>M20 cable gland, IP67, Ø: 10-14 mm</td>
<td>M20 cable gland, IP67, Ø: 10-14 mm</td>
</tr>
</tbody>
</table>

- AC modular device (< 25 mm²)
- 1 x single phase (L, N, PE)
- M25 cable gland, IP67, Ø: 13-18 mm
- 1 x single phase (L, N, PE)

<table>
<thead>
<tr>
<th>Standards</th>
<th>Standards</th>
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<tr>
<td>EN 61439-2, Protection class II</td>
<td>EN 61439-2, Protection class II</td>
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Note

- Pre-wired combiner boxes
### PV AC 1IN SW 230/25/30mA SPD CG

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### PV AC 1IN SW 230/32/30mA SPD CG

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### PV AC 1IN SW 230/16/300mA SPD CG

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<tbody>
<tr>
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<td>7504812002</td>
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</tbody>
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190 x 184 x 106 mm
Direct wall mounting with mounting lugs
IP66

230 V AC
25 A AC
RCBO: In=25A, 1P+N, Type A, curve C, IΔn=30mA
(EN 61009-1)
RCBO
TN-S, TN-C-S, TT & IT (EN 60364)
PU II 1+1 280 V/40 kA, without auxiliary contact
1 x single-phase (L, N, PE)
M20 cable gland, IP67, Ø: 10-14 mm
1 x single-phase (L, N, PE)
M20 cable gland, IP67, Ø: 13-18 mm
EN 61439-2, Protection class II

---

190 x 184 x 106 mm
Direct wall mounting with mounting lugs
IP66

230 V AC
32 A AC
RCBO: In=32A, 1P+N, Type A, curve C, IΔn=30mA
(EN 61009-1)
RCBO
TN-S, TN-C-S, TT & IT (EN 60364)
PU II 1+1 280 V/40 kA, without auxiliary contact
1 x single-phase (L, N, PE)
M20 cable gland, IP67, Ø: 10-14 mm
1 x single-phase (L, N, PE)
M20 cable gland, IP67, Ø: 13-18 mm
EN 61439-2, Protection class II

---

190 x 184 x 106 mm
Direct wall mounting with mounting lugs
IP66

230 V AC
16 A AC
RCBO: In=16A, 1P+N, Type A, curve C, IΔn=30mA
(EN 61009-1)
RCBO
TN-S, TN-C-S, TT & IT (EN 60364)
PU II 1+1 280 V/40 kA, without auxiliary contact
1 x single-phase (L, N, PE)
M20 cable gland, IP67, Ø: 10-14 mm
1 x single-phase (L, N, PE)
M20 cable gland, IP67, Ø: 13-18 mm
EN 61439-2, Protection class II
Technical data

Enclosures
Dimensions (H/W/D) 190 x 184 x 106 mm
Attachment method Direct wall mounting with mounting lugs
Degree of protection (according to EN 60529) IP66

Electrical properties
Rated AC voltage (Un) 230 V AC
Rated AC current (In) 20 A AC
Residual current AC circuit breaker (RCD) / Residual current AC circuit breaker with overcurrent protection (RCBO)
 Thermal magnetic AC circuit breaker
Earthing (AC) TN-S, TN-C-S, TT & IT (EN 60364)
Surge protection AC side

Electrical properties
Rated AC voltage (Un) 230 V AC
Rated AC current (In) 25 A AC
Residual current AC circuit breaker (RCD) / Residual current AC circuit breaker with overcurrent protection (RCBO)
 Thermal magnetic AC circuit breaker
Earthing (AC) TN-S, TN-C-S, TT & IT (EN 60364)

Surge protection AC side
PU II 1+1 280 V/40 kA, without auxiliary contact

Inputs
Number of AC inputs, inverter side 1 x single-phase (L, N, PE)
Connection inverter side AC input cables to WDU 10 (1.5 – 16 mm²)
Entrance inverter side AC input cables through M20 cable gland, IP67, Ø: 10-14 mm

Outputs
Number of AC outputs, grid side 1 x single-phase (L, N, PE)
Connection grid side AC output cables to AC modular device (< 25 mm²)
Exit grid side AC output cables through M25 cable gland, IP67, Ø: 13-18 mm

Standards
EN 61439-2, Protection class II

Note
Ordering data

<table>
<thead>
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Note
Pre-wired combiner boxes
### PV AC 1IN SW 230/32/300mA SPD CG

<table>
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<tr>
<th>Dimension</th>
<th>Description</th>
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<tbody>
<tr>
<td>190 x 184 x 106 mm</td>
<td>Direct wall mounting with mounting lugs</td>
</tr>
<tr>
<td>IP66</td>
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</tbody>
</table>

- **230 V AC**
  - RCBO: In=25A, 1P+N, Type A, curve C, IΔn=300mA (EN 61009-1)
  - IN (S, TN-C-S, TT & IT (EN 60364)
  - PU II 1+1 280 V/40 kA, without auxiliary contact
  - 1 x single-phase (L, N, PE)
  - M50 cable gland, IP67, Ø: 10-14 mm
  - 1 x single-phase (L, N, PE)
  - M25 cable gland, IP67, Ø: 13-18 mm
  - EN 61439-2, Protection class II

- **32 A AC**
  - RCBO: In=40A, 4P, Type A, IΔn=300mA (EN 61008-1)
  - IN (S, TN-C-S, TT & IT (EN 60364)
  - PU II 3+1 280 V/40 kA, without auxiliary contact
  - 1 x single-phase (L, N, PE)
  - M25 cable gland, IP67, Ø: 13-18 mm
  - 1 x three-phase (R, S, T, N, PE)
  - M32 cable gland, IP67, Ø: 18-25 mm
  - EN 61439-2, Protection class II

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### PV AC 1IN 3PH SW 230/32/300mA SPD CG

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>250 x 328 x 140 mm</td>
<td>Direct wall mounting with mounting lugs</td>
</tr>
<tr>
<td>IP66</td>
<td></td>
</tr>
</tbody>
</table>

- **230/400 V AC**
  - RCBO: In=25A, 1P+N, Type A, curve C, IΔn=300mA (EN 61009-1)
  - IN (S, TN-C-S, TT & IT (EN 60364)
  - PU II 1+1 280 V/40 kA, without auxiliary contact
  - 1 x single-phase (L, N, PE)
  - M50 cable gland, IP67, Ø: 10-14 mm
  - 1 x single-phase (L, N, PE)
  - M25 cable gland, IP67, Ø: 13-18 mm
  - EN 61439-2, Protection class II

- **32 A AC**
  - RCBO: In=40A, 4P, Type A, IΔn=300mA (EN 61008-1)
  - IN (S, TN-C-S, TT & IT (EN 60364)
  - PU II 3+1 280 V/40 kA, without auxiliary contact
  - 1 x single-phase (L, N, PE)
  - M50 cable gland, IP67, Ø: 10-14 mm
  - 1 x three-phase (R, S, T, N, PE)
  - M25 cable gland, IP67, Ø: 13-18 mm
  - EN 61439-2, Protection class II

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**Type** | **Qty.** | **Order No.**
--- | --- | ---
PV AC 1IN SW 230/32/300mA SPD CG | 1 | 7504812004

**Type** | **Qty.** | **Order No.**
--- | --- | ---
PV AC 1IN 3PH SW 230/32/300mA SPD CG | 1 | 7504814001
Inquiry form for PV combiner boxes

Date:_________________

Contact data

Company name
Customer number at Weidmüller
Project name
Your name
Tel. (for any queries)
Name of your contact at Weidmüller

Specifications

Number of boxes in question
Number of strings
Fuses in
String current [A]
Max. rated DC voltage [V]
Total current [A]
Max. cross-section of the output terminals [mm²]
Max. cross-section of the string lines [mm²]
String cable entry
Other cable entry / special features
Performance monitoring Transclinic xi+
Existing external supply voltage (required for Transclinic xi+)
Surge protection (OVP)
Switch-disconnector
Degree of protection (standard: IP55)
Attachment method
Lockable housing
Are special markers needed (e.g. cabinet number in a park)
Further requirements

PV WM4 connector
Cable glands

Yes
No

Cable glands

Yes
No

230 V AC from outside

Yes
No

Yes
No

Yes
No

Free standing (floor distributors)
Wall mounting

Environment / operating conditions

For use
Operating manual language
Language spoken at the installation site
Other language

Outdoors
Inside

German
English

German
English

Notes

__________________________________________________________________________

__________________________________________________________________________