

**PV 212S0F3CXXV000TAPA15PWW**
**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

[www.weidmueller.com](http://www.weidmueller.com)


Standard portfolio for combiner boxes.

Protect and monitor strings in a solar park.

Weidmüller has developed a full portfolio of standard PV DC combiner boxes for solar parks. These products intend to cover the most common used solutions for such purposes in an efficient and competitive manner. From 6 up to 32 inputs our Generation X offers a full range of products for monitored and non-monitored combiner boxes allowing our customer to benefit from Weidmueller's experience and commitment to quality. Gen X

**General ordering data**

|            |                                                                                                                                                                                                                                                |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Version    | Photovoltaics, Assembled enclosure, Combiner Box, 1500 V, With fuse holder, Surge protection II, Cable gland, for wall mounting, Switch disconnect, Portrait, Current monitoring, Voltage monitoring, Temperature monitoring, Central Inverter |
| Order No.  | <a href="#">8000101214</a>                                                                                                                                                                                                                     |
| Type       | PV 212S0F3CXXV000TAPA15PWW                                                                                                                                                                                                                     |
| GTIN (EAN) | 4099986025325                                                                                                                                                                                                                                  |
| Qty.       | 1 items                                                                                                                                                                                                                                        |

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## Technical data

## Approvals

Approvals



ROHS Conform

## Dimensions and weights

|            |            |                 |              |
|------------|------------|-----------------|--------------|
| Depth      | 350 mm     | Depth (inches)  | 13.7795 inch |
| Height     | 1056 mm    | Height (inches) | 41.5747 inch |
| Width      | 852 mm     | Width (inches)  | 33.5432 inch |
| Net weight | 38247.46 g |                 |              |

## Temperatures

|                     |                |                       |                 |
|---------------------|----------------|-----------------------|-----------------|
| Ambient temperature | -20 °C...45 °C | Operating temperature | -20°C to +45 °C |
|---------------------|----------------|-----------------------|-----------------|

## Environmental Product Compliance

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 1d28ada4-1634-4382-8635-45f6353a6574 |

## DC electrical properties

|               |                     |                          |                      |
|---------------|---------------------|--------------------------|----------------------|
| Rated voltage | 1500 V              | Switching capacity       | 400 A (DC21B 1500 V) |
| Earthing      | Directly at the VPU | Surge protection DC side | 1500 V type II       |

## DC inputs

|                                 |                                          |                         |                 |
|---------------------------------|------------------------------------------|-------------------------|-----------------|
| Cartridge fuse                  | 22 x 58 mm                               |                         |                 |
| Fuse protection                 | 30 A, 35 A, 40 A, 50 A, 60 A, 70 A, 75 A |                         |                 |
| Number of DC inputs             | 12                                       |                         |                 |
| Fused poles of string           | +/-                                      |                         |                 |
| Connection type, DC input cable | Cable gland                              |                         |                 |
| Connection DC input cable (-)   | Screw connection                         |                         |                 |
| Fuse-link standard              | gPV (EN 60269-6)                         |                         |                 |
| Functional earth connector      | Cable entry                              | Number of cable entries | 1               |
|                                 |                                          | Cable diameter, min.    | 6 mm            |
|                                 |                                          | Cable diameter, max.    | 12 mm           |
| DC Input + & -                  | Wire connection                          | Type of connection      | M20 Cable gland |
|                                 | Wire connection                          | Type of connection      | M16 Cable gland |
|                                 | Cable entry                              | Number of cable entries | 24              |
|                                 |                                          | Cable diameter, min.    | 5 mm            |
|                                 |                                          | Cable diameter, max.    | 10 mm           |
| Connection DC input cable (+)   | Screw connection                         |                         |                 |
| Fuse type                       | Empty fuse holder                        |                         |                 |
| Position of the fuses           | positive and negative inputs             |                         |                 |
| Type of fuse                    | Empty fuse holder                        |                         |                 |

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## DC outputs

|                                             |                             |                          |                     |
|---------------------------------------------|-----------------------------|--------------------------|---------------------|
| DC output cable connection                  | M12 bolt and nut connection |                          |                     |
| DC Output + & -                             | Wire connection             | Type of connection       | M40 Cable gland     |
|                                             |                             | Wire cross-section, min. | 150 mm <sup>2</sup> |
|                                             |                             | Wire cross-section, max. | 400 mm <sup>2</sup> |
| Number of DC outputs                        | 2                           |                          |                     |
| Load circuit breaker with auxiliary contact | No                          |                          |                     |

## DC string monitoring

|                    |              |                        |                                                 |
|--------------------|--------------|------------------------|-------------------------------------------------|
| Supply             | Self-powered | Monitoring function    | Solar SMS, Output voltage, current, temperature |
| Voltage monitoring | Solar SMS    | Temperature monitoring | Solar SMS                                       |
| Current monitoring | Solar SMS    |                        |                                                 |

## Housing

|                  |               |                   |      |
|------------------|---------------|-------------------|------|
| Type of mounting | Wall mounting | Protection degree | IP65 |
|------------------|---------------|-------------------|------|

## Norms and standards

|           |                                     |
|-----------|-------------------------------------|
| Standards | EN 61439-2:2011, IEC 61439-2 ed 3.0 |
|-----------|-------------------------------------|

## Guarantee

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

## 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 |             |             |

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Drawings



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## Drawings

## Combiner Box Name Description

PV 2 24 S0 FX CXX VX OX TXPX 15 P F ES

**PV 1:** PV DC L0 Industrial  
**PV 2:** PV DC L1 Industrial  
**PV 3:** PV DC L2 Industrial

**Number of inputs (01-36)**

**S0:** Switch-disconnector

S0 → Switch-disconnector (SW)  
 S1 → Switch-disconnector with remote disconnection (SW RD)  
 S2 → Molded Case Circuit Breaker (MCCB)  
 S3 → Motorized switch-disconnector (SW M)  
 S4 → Switch-disconnector with Contactor (SW K)  
 SX → No Switch-disconnector needed (N/A)

**FX:** Fuses / Fuseholders position

F0 → Fuses Both Poles  
 F1 → Only Positive Fuses  
 F2 → Only Negative Fuses  
 F3 → Only Fuse Holders  
 F4 → Only fuse holder in positive (+)  
 F5 → Only fuse holder in negative (-)  
 FX → No Fuse holders needed (N/A)

**CXX:** CIL Fuses Type → C 10/15/16/20/25/30/40/50/55/60/63/80 - (Example C10)

**NXX:** NH Fuses Type → N 40/50/63/80/100/125/160/200/250/315/355/400 - (Example N40)

CXX → N/A, NXX → N/A

**VX:** SPD Type

V0 → SPD Class II / V1 → SPD Class I+II / V2 → SPD Class I

VX → No SPD needed (N/A)

**Country / Whole World**

**Floating:** YES (F) / NO

**P:** Portrait

**L:** Landscape

**10:** 1000V

**15:** 1500V

**TX:** Monitoring Device

TX → No monitoring (N/A)  
 T2 → TC 16H (1kV or 1.5kV)  
 T5 → TC 2x16H  
 T7 → TC 16H+H  
 T8 → Others  
 T9 → Fonnich  
 TA1 → Solar SMS (25A)  
 TA2 → Solar SMS (50A)  
 TA3 → Solar SMS LoRaWAN (25A)  
 TA4 → Solar SMS LoRaWAN (50A)

**PX:** Power Supply for (TX)

PX → No Power Supply Needed (N/A)  
 P0 → Self-Powered (BKE)  
 P1 → External Power Supply (PS ACDC)  
 PA → Self-Powered (EE)

**OX:** Output type

OX → No holes needed (N/A)  
 O0 → Cable Gland  
 O1 → WM4C  
 O2 → MC4  
 O3 → Multivia CG

