

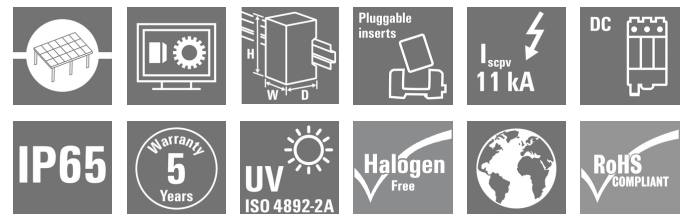
PV 220S0F3CXXV100TA1PA15LWW**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

**Standard portfolio for 1 MPPT string inverters
Protect and monitor strings in solar parks with
string inverters with 1 MPPT.**

The following PV DC combiner box portfolio is meant to be used with string inverters with one Maximum Power Point Tracker (MPPT) in order to bundle, protect and isolate the number of strings these inverters use. 1 MPPT

General ordering data

| | |
|------------|--|
| Version | Photovoltaics, Assembled enclosure, Combiner Box, 1500 V, With fuse holder, Surge protection II, Cable gland, for wall mounting, Switch disconnect, Landscape, Current monitoring, Voltage monitoring, Temperature monitoring, String Inverter |
| Order No. | 8000122742 |
| Type | PV 220S0F3CXXV100TA1PA15LWW |
| GTIN (EAN) | 4099986877818 |
| Qty. | 1 pc(s). |

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Technical data**Dimensions and weights**

| | | | |
|------------|----------|-----------------|-------------|
| Depth | 300 mm | Depth (inches) | 11.811 inch |
| Height | 636 mm | Height (inches) | 25.039 inch |
| Width | 847 mm | Width (inches) | 33.346 inch |
| Net weight | 29,000 g | | |

Temperatures

| | | | |
|---------------------|-----------------|-----------------------|-----------------|
| Ambient temperature | -20°C to +40 °C | Operating temperature | -20°C to +40 °C |
|---------------------|-----------------|-----------------------|-----------------|

DC electrical properties

| | | | |
|--------------------------|------------------------------------|--------------------|----------------------|
| Earthing | Directly at the VPU | Rated voltage | 1,500 V |
| Surge protection DC side | 1500 V type II with remote contact | Switching capacity | 400 A (DC21B 1500 V) |

DC inputs

| | | | |
|---------------------------------|------------------------------------|-------------------------|-----------------|
| Amount of maximum power points | 1 | | |
| Cartridge fuse | 10 x 85 mm | | |
| Connection DC input cable (+) | Screw connection | | |
| Connection DC input cable (-) | Screw connection | | |
| Connection type, DC input cable | Cable gland | | |
| DC Input + & - | Wire connection | Type of connection | M16 Cable gland |
| | Cable entry | Number of cable entries | 40 |
| | | Cable diameter, min. | 5 mm |
| | | Cable diameter, max. | 10 mm |
| Functional earth connector | Cable entry | Number of cable entries | 1 |
| | | Cable diameter, min. | 6 mm |
| | | Cable diameter, max. | 12 mm |
| | Wire connection | Type of connection | M20 Cable gland |
| Fuse | 15 A, 16 A, 20 A, 25 A, 30 A, 32 A | | |
| Fuse | Empty fuse holder | | |
| Fuse type | Empty fuse holder | | |
| Fuse-link standard | gPV (EN 60269-6) | | |
| Fused poles of string | +/- | | |
| Number of DC inputs | 20 | | |
| Position of the fuses | positive and negative inputs | | |

DC outputs

| | | | |
|---|-----------------------------|--------------------------|---------------------|
| Connection type, DC output cable | Screw terminal connectors | | |
| DC Output + & - | Wire connection | Type of connection | M40 Cable gland |
| | | Wire cross-section, min. | 150 mm ² |
| | | Wire cross-section, max. | 300 mm ² |
| DC output cable connection | M10 bolt and nut connection | | |
| Load circuit breaker with auxiliary contact | No | | |
| Number of DC outputs | 2 | | |

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Technical data

DC string monitoring

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

Housing

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

Norms and standards

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

Guarantee

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

Electrical characteristics

| | | | |
|------------------|---------|---------------------------------|-------------|
| Rated DC voltage | 1,500 V | Switching disconnector capacity | IEC 60947-3 |
|------------------|---------|---------------------------------|-------------|

Enclosure

| | | | |
|------------------------|---|-------------------------------|-----------------------------------|
| Connection type string | Internal terminal (with cable gland feed-through) | Cover | Hinged door |
| Enclosure attachment | Fixing lugs | Impact resistance | IK10 in accordance with IEC 62262 |
| Insulating material | Polyester glass-fibre reinforced, Polycarbonate | Switch disconnector execution | switch inside enclosure |
| Type of mounting | Wall mounting | | |

General data

| | | | |
|-----------------------|---|-------------------|------|
| Installation location | Protected outdoor area (>1 km from sea) | Protection degree | IP65 |
| Standards | EN 61439-2:2011, IEC 61439-2 ed 3.0 | | |

Surge protection DC side

| | | | |
|---------------------------------|------------------------------------|-----------|-------------------------------------|
| Short-circuit current I_{SCP} | 16.5 A | Standards | EN 61439-2:2011, IEC 61439-2 ed 3.0 |
| Surge protection DC side | 1500 V type II with remote contact | | |

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 |

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www.weidmueller.com**Technical data****Environmental Product Compliance**

| | |
|------------|--------------------------------------|
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 1d28ada4-1634-4382-8635-45f6353a6574 |

Approvals

Approvals



| | |
|------|---------|
| ROHS | Conform |
|------|---------|

Downloads

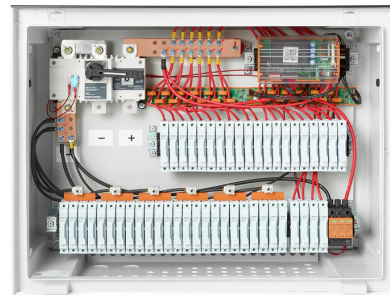
| | |
|---|--|
| Approval/Certificate/Document of Conformity | EU Declaration of Conformity Combiner Boxes monitored |
| Technical Documentation | Mechanical Drawing Electrical Drawing |
| User Documentation | User Manual PV DC Combiner Boxes |
| Catalogues | Catalogues in PDF-format |

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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)
S5 → 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 C20)

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)

OX: Output type
O0 → No holder needed (N/A)
O1 → Cable Gland
O2 → M24
O3 → M24
O4 → M24
O5 → M24

Country / Whole World

Floating: YES (F) / NO

P: Portrait

L: Landscape

10: 1000V

15: 1500V

TX: Monitoring Device

TX → No monitoring (N/A)
T0 → TC 24V (24V or 1.3kV)
T1 → TC 24V
T2 → TC 24V
T3 → TC 24V
T4 → TC 24V
T5 → TC 24V
T6 → TC 24V
T7 → TC 24V
T8 → TC 24V
T9 → TC 24V
T10 → TC 24V
T11 → TC 24V
T12 → TC 24V
T13 → TC 24V
T14 → TC 24V
T15 → TC 24V
T16 → TC 24V
T17 → TC 24V
T18 → TC 24V
T19 → TC 24V
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T21 → TC 24V
T22 → TC 24V
T23 → TC 24V
T24 → TC 24V
T25 → TC 24V
T26 → TC 24V
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T90 → TC 24V
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T92 → TC 24V
T93 → TC 24V
T94 → TC 24V
T95 → TC 24V
T96 → TC 24V
T97 → TC 24V
T98 → TC 24V
T99 → TC 24V

PX: Power Supply for (TX)

PX → No Power Supply Needed (N/A)
P0 → Self-Powered (SEI)
P1 → External Power Supply (PS ACDC)
P2 → Self-Powered (SEI)
P3 → Self-Powered (SEI)
P4 → Self-Powered (SEI)
P5 → Self-Powered (SEI)
P6 → Self-Powered (SEI)
P7 → Self-Powered (SEI)
P8 → Self-Powered (SEI)
P9 → Self-Powered (SEI)

