

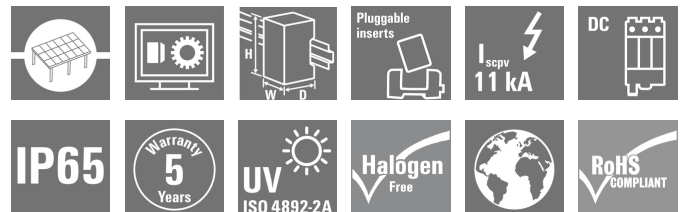
**PV 220S0F3CXXV100TA1PA15LWW****Weidmüller Interface GmbH & Co. KG**

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.	<a href="#">8000122742</a>
Type	PV 220S0F3CXXV100TA1PA15LWW
GTIN (EAN)	4099986877818
Qty.	1 pc(s).

Creation date June 1, 2024 9:53:53 PM CEST

Catalogue status 18.05.2024 / We reserve the right to make technical changes.

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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
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**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.	22 mm <sup>2</sup>
		Wire cross-section, max.	32 mm <sup>2</sup>
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
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### Norms and standards

Standards	EN 61439-2:2011, IEC 61439-2 ed 3.0
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### Guarantee

Time interval	5 years
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### Electrical characteristics

Rated DC voltage	1,500 V	Switching disconnecter capacity	IEC 60947-3
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### Enclosure

Connection type string	Internal terminal (with cable gland feed-through)	Enclosure attachment	Fixing lugs
Impact resistance	IK10 in accordance with IEC 62262	Insulating material	Polyester glass-fibre reinforced, Polycarbonate
Switch disconnecter 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](http://www.weidmueller.com)**Technical data****Approvals**

Approvals



ROHS

Conform

**Downloads**Approval/Certificate/Document of Con-  
formity[EU Declaration of Conformity Combiner Boxes monitored](#)

Technical Documentation

[Mechanical Drawing](#)[Electrical Drawing](#)

User Documentation

[User Manual PV DC Combiner Boxes](#)

Catalogues

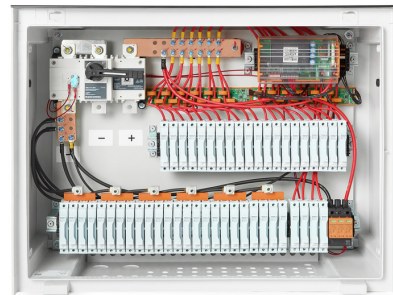
[Catalogues in PDF-format](#)

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# Drawings



## PV 220S0F3CXXV100TA1PA15LWW

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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 → Molded 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 negative (-)  
 F5 → Only Fuse holder in negative (+)  
 F6 → 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)

**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 200 (200 or 2.5kV)  
 T5 → TC 200kV  
 T6 → TC 200kV  
 T7 → TC 200kV  
 T8 → Others  
 T9 → Forcibly  
 T10 → Solar SMS (25A)  
 T12 → Solar SMS (50A)  
 T13 → Solar SMS Lokuliban (25A)  
 T14 → Solar SMS Lokuliban (50A)

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

PX → No Power Supply Needed (N/A)  
 P0 → Self-Powered (BMS)  
 P1 → External Power Supply (PS-ACDC)  
 P2 → Self-Powered (BMS)

**OX:** Output type

OX → No Input needed (N/A)  
 O1 → WMAC  
 O2 → NACE  
 O3 → Multivolt CG

