

PV 220S0F4CXXV000TAPA15PWW**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

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 Weidmüller'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.	8000093501
Type	PV 220S0F4CXXV000TAPA15PWW
GTIN (EAN)	4064675853886
Qty.	1 pc(s).

PV 220S0F4CXXV000TAPA15PWW

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	300 mm	Depth (inches)	11.811 inch
Height	847 mm	Height (inches)	33.346 inch
Width	636 mm	Width (inches)	25.039 inch
Net weight	25,350.33 g		

Temperatures

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

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		
Number of conduit inlets	45		
Number of inputs	20		
Position of the fuses	only in positive inputs		

DC outputs

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	M12 bolt and nut connection		
Load circuit breaker with auxiliary contact	No		
Number of DC outputs	2		

PV 220S0F4CXXV000TAPA15PWW
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com
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
------------------	---------

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	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

Requirements class	Type II	Short-circuit current I_{SCP}	18 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
ECLASS 14.0	22-57-02-92		

PV 220S0F4CXXV000TAPA15PWW

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Environmental Product Compliance

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

Approvals

Approvals



ROHS	Conform
------	---------

Downloads

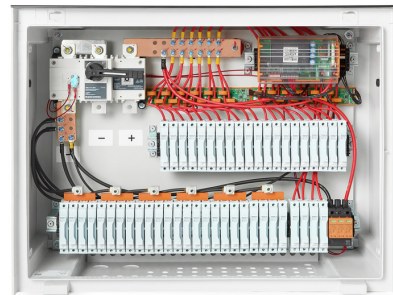
Approval/Certificate/Document of Conformity	EU Declaration of Conformity Combiner Boxes monitored
Engineering Data	Electrical Drawing Thermal Report
Technical Documentation	Mechanical Drawing
User Documentation	User Manual PV DC Combiner Boxes
Catalogues	Catalogues in PDF-format

PV 220S0F4CXXV000TAPA15PWW

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Drawings



PV 220S0F4CXXV000TAPA15PWW

Weidmüller Interface GmbH & Co. KG
 Klingenbergstraße 26
 D-32758 Detmold
 Germany

www.weidmueller.com

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 → M24x1.5

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 24V (24V or 1.3kV)
 T5 → TC 24V
 T7 → TC 24V
 T8 → Others
 T9 → Farneth

TAL → Solar SMS (25A)

TAX → Solar SMS (25A)

TBA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

TAA → Solar SMS LUKABIAN (25A)

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)

