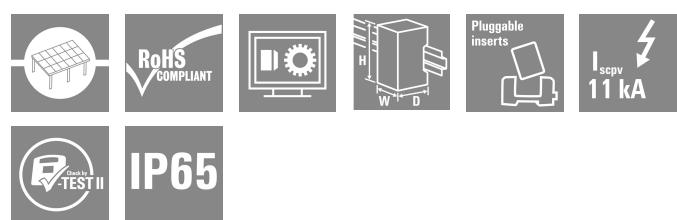


PV 210S5F3CXXV100TA1PA10PWW**Weidmüller Interface GmbH & Co. KG**Klingenbergsstraße 26
D-32758 Detmold
Germanywww.weidmueller.com

PV Next combiner boxes for inverters with 1 to 12 MPP trackers are used to protect the DC side of a photovoltaic system. The combiner boxes protect the inverter against overvoltages and thus comply with the European Directive CLC/TS 51643-32. In addition, these products offer the possibility to protect the system against reverse currents and the possibility to combine strings to save cables during installation.

General ordering data

Version	Photovoltaics, Combiner Box, 1000 V, 2 MPP's, 10 Inputs / 1 Output per MPP, With fuse holder, Surge protection, Switch disconnector, Current monitoring, Cable gland, Designed for Fronius Tauro Eco Inverters
Order No.	8000111138
Type	PV 210S5F3CXXV100TA1PA10PWW
GTIN (EAN)	4099986933637
Qty.	1 items

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Technical data**Approvals**

RoHS	Conform
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Dimensions and weights

Depth	350 mm	Depth (inches)	13.7795 inch
Depth with add-on components	350 mm	Height	1065 mm
Height (inches)	41.929 inch	Width	852 mm
Width (inches)	33.5432 inch	Net weight	45000 g

Temperatures

Ambient temperature	-20 °C...45 °C
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Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	1d28ada4-1634-4382-8635-45f6353a6574

Included in delivery

Included accessories	Article	Mounting foot
	Quantity	4

Electrical characteristics

Rated DC voltage	1000 V	Current per Maximum Power Point, max. 135 A
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Enclosure

Insulating material	Polyester glass-fibre reinforced, Polycarbonate	Type of mounting	Fixing lugs
Impact resistance	IK10 in accordance with IEC 62262	Enclosure attachment	Fixing lugs
Protection class	II	Connection type string	Internal terminal (with cable gland feed-through)

General data

Standards	EN 61643-31	Protection degree	IP65
Installation location	Protected outdoor area (>1 km from sea)		

Inputs

Cartridge fuse	10 x 38 mm
Fused poles of string	+-
Fuse-link standard	gPV (EN 60269-6)
Amount of maximum power points (MPP)	2
Number of conduit inlets	10
Fuse type	Empty fuse holder
Fuses	Yes
Max. number of DC inputs	per Maximum Power Point 10 inputs connected in parallel
Number of string inputs per MPP	≥ 7...≤ 10

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Technical data

Surge protection auxiliary contact	Cable entry	Number of cable entries	1
	Wire connection	Type of connection	PUSH IN with actuator

Number of inputs	10	Flexible, max. H05(07) 2.5 mm ²
		V-K

w. wire end ferrule, DIN 46228 pt 1, max.	2.5 mm ²
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Number of inputs	10	
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Outputs		
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Max. number of DC outputs	per Maximum Power Point
	1 output

Surge protection DC side		
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Standards	EN 61643-31	Lightning test current limp (10/350 µs)	6.25 kA
Discharge current, max. (8/20 µs)	40 kA	Short-circuit current ISCPV	162.5 A
Total discharge current I _{total} (8/20µs)	50 kA	Discharge current I _n (8/20 µs)	20 kA
Requirements class	Type I/II	Total discharge current I _{total} (10/350µs)	12.5 kA
PV system voltage, max. U _{cpv}	1000 V	Surge protection DC side	1000 V type I + II

Maximum continuous operating voltage	1000 V
DC UCPV mode +/-, -/PE, +/-PE	

DC load break switch		
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Voltage type	DC	Rated impulse withstand voltage	12 kV
Switch disconnector execution	switch inside enclosure	Motor drive available	No
Number of breaking operation cycles at rated current	200	Number of operating cycles	10000

Important note		
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Product information	The SCIP number was assigned due to a lead content of more than 0.1 % of the net weight. Safe use instruction according to ECHA: The identification of the hazardous substance is sufficient to allow safe use of the article throughout its life cycle, including the service life, disassembly and waste/recycling phase Fuses are not included
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Classifications		
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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		

Tender specification sheets		
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Long specification	Combiner box for inverters with 2 MPP tracker, suitable for protecting the DC side of a photovoltaic system according to DIN CLC/TS 51643-32. MPP1: 10 inputs, connection via M16 cable gland. Screw connection / single-wire, multi-wire, with/without ferrule. 1 output, connection via M25 cable gland. Screw connection / single-wire,
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Technical data

multi-wire, with/without ferrule.
MPP2:
identical to MPP1 Max.
string voltage Uoc: 1000 VDC
1 class/type I + II
combined arrester with signal contact
Fuse holders for inputs and outputs (fuses 10x38 to be ordered separately)
With current Monitoring
With lockable DC load break switch for safe separation of the string lines according to DIN EN IEC 60947-3
Connection of the signal contact via M16 cable glands (Clamping range 5-10 mmØ) max. conductor cross-section: 1.5 mm²
Connection of the functional earth via M16 cable glands (Clamping range 5-10 mmØ)
Conductor cross-section: ≥ 16 mm²
Protection class: IP65
All built into a glass fibre reinforced polyester housing. Dimensions HxWxD: 1065x852x350 mm
Approval according to low voltage switchgear and controlgear IEC 61439-1 and EN 61439-2

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Drawings

