

PVN1M1I3S0FXV2O1TXPX10

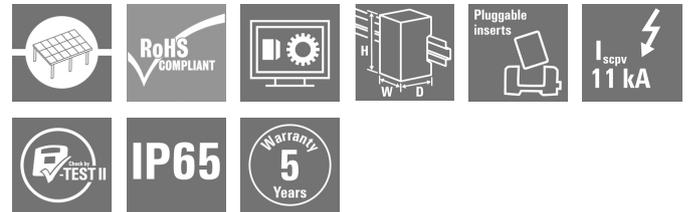
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.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 5 1643-32. 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, 1 MPP, 3 Inputs / 3 Outputs per MPP, Surge protection II, Switch disconnecter, WM4C
Order No.	2683400000
Type	PVN1M1I3S0FXV2O1TXPX10
GTIN (EAN)	4050118700121
Qty.	1 pc(s).
Delivery status	Discontinued
Available until	2023-03-31
Alternative product	2890470000
Replacement parts	2530660000

Creation date May 8, 2025 5:01:26 PM CEST

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Technical data

Dimensions and weights

Depth	214 mm	Depth (inches)	8.425 inch
Depth with add-on components	215 mm	Height	334 mm
Height (inches)	13.15 inch	Width	186 mm
Width (inches)	7.323 inch	Net weight	2,600 g

Temperatures

Ambient temperature	-40 °C...50 °C	Humidity	5 - 90 %, no condensation
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DC string monitoring

Monitoring function	Non monitored
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Approvals and norms

Approvals	EN 61439-2, IEC 61439-2
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Guarantee

Time interval	5 years
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Electrical characteristics

Current per Maximum Power Point, max. 30 A	
Rated DC voltage	1,000 V
Rated short-term current resistance	Rated current 37.5 A

Enclosure

Connection type string	Plug WM4C	Cover	with cover, removeable
Enclosure attachment	Via mounting foets	Impact resistance	IK08 in accordance with IEC 62208, IK10 in accordance with IEC 62262
Insulating material	Polyester glass-fibre reinforced, Polycarbonate	Type of mounting	Wall mounting, 4 screws

General data

Installation location	Protected outdoor area (Land and Sea)	Protection degree	IP65
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Inputs

Amount of maximum power points (MPP)	1		
DC Input + & -	Wire connection	Type of connection	WM4C plug-in connector
		Compatible cable crossection	EN 50618:2015, TÜV 2 Pfg1169/08.07
		Wire cross-section, min.	2.5 mm ²
		Wire cross-section, max.	6 mm ²

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Functional earth connector	Cable entry	Number of cable entries	1
		Cable diameter, min.	5
		Cable diameter, max.	10
		Cable glands	M 16
	Wire connection	Type of connection	Screw connection
		Flexible, max. H05(07) V-K	25 mm ²
	w. wire end ferrule, DIN 46228 pt 1, max.	16 mm ²	
Fuse type	Neither fuse cartridge nor holder		
Fuses	No		
Max. number of DC inputs	per Maximum Power Point 3 inputs connected in parallel		
Number of conduit inlets	3		
Number of string inputs per MPP	≤ 3		
Surge protection auxiliary contact	Wire connection	Type of connection	Tension clamp connection with actuator
		Flexible, max. H05(07) V-K	1.5 mm ²
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²
	Cable entry	Number of cable entries	1
		Cable diameter, min.	5
		Cable diameter, max.	10
	Cable glands	M 16	
Number of inputs	3		

Outputs

DC Output + & -	Wire connection	Type of connection	WM4C plug-in connector
		Compatible cable cross-section	TÜV 2 Pfg 1169/08.07, EN 50618:2015
		Wire cross-section, min.	4 mm ²
		Wire cross-section, max.	6 mm ²
Max. number of DC outputs	per Maximum Power Point 3 outputs connected in parallel		

Surge protection DC side

Discharge current I_n (8/20 μs)	20 kA	Discharge current, max. (8/20 μs)	40 kA
Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/PE	1,100 V	PV system voltage, max. U_{cpv}	1,100 V
Protection level U_p (+/-)	≤ 3.8 kV	Protection level U_p (+/PE)	≤ 3.8 kV
Protection level U_p (-/PE)	≤ 3.8 kV	Requirements class	Type II
Short-circuit current I_{SCPV}	11,000 A	Standby power consumption P_C	< 0.2 W
Total discharge current I_{total} (8/20 μs)	50		

DC load break switch

Switch disconnector execution	switch in cover	Switching disconnector capacity	DC-PV1, IEC 60947-3
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Classifications

ETIM 6.0	EC002928	ETIM 7.0	EC002928
ETIM 8.0	EC003857	ETIM 9.0	EC003857
ETIM 10.0	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
ECLASS 15.0	22-57-02-92		

Tender specification sheets

Long specification

Combiner box for inverters with 1 Mpp-tracker, used to protect the DC side. Max. String voltage Uoc: 1000 V

MPPT1:

Up to 3 inputs, connection via WM4 C connector compatible with cable type TÜV 2 Pfg 1 169/08.07 / EN 50618:2052

Up to 3 outputs, connection via WM4 C connector compatible with cable type TÜV 2 Pfg 1 169/08.07 / EN 50618:2052

with DC switch
1 surge protection 1000 V type II with remote contact

Connection of the signal contact via cable glands (8-12mmØ) max. cable cross-section: 1.5mm²

Connection of functional earth via cable glands (8-12mmØ) cable cross-section: 16mm²

Protection class: IP65

Plastic enclosure

Dimensions HxWxD:
186x302x175 mm

According to standard, Low-voltage switchgear assemblies - Part 1: General specifications, (IEC 61439-1:2011), BS EN 61439-2:2048

Environmental Product Compliance

RoHS Compliance Status	Compliant
REACH SVHC	Lead 7439-92-1
SCIP	bdab5698-6a20-4370-8e28-8810d882d01a

Creation date May 8, 2025 5:01:26 PM CEST

Catalogue status 26.04.2025 / We reserve the right to make technical changes.

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Important note

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
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Approvals

Approvals



Approvals MAMID	https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/
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Downloads

Approval/Certificate/Document of Conformity	EU Declaration of Conformity
Engineering Data	CAD data – PV Next Schematic Diagram CAD data – STEP
Technical Documentation	customer drawing
User Documentation	Manual PV Next String Combiner Box MANUAL PV NEXT IT/ES/FR
White paper	Fact Sheet DE PV CB Wie man Gebäude gegen Blitzschläge schützt Fact Sheet DE PV Wie man die Lebensdauer eines GAK verlängert Fact Sheet DE PV CB Wann Sicherungen zu installieren sind Fact Sheet DE CB PV NEXT Fact Sheet EN PV CB When DC fuses are mandatory to install Fact Sheet EN CB PV NEXT Fact Sheet EN PV How to protect buildings against lightning strikes Fact Sheet EN PV How to extend the life time of a Combiner Box Fact Sheet DE PV CB Lastentrennschalter Fact Sheet DE CB PV Strings kombinieren Fact-Sheet EN PV CB Load break switch Fact Sheet EN CB Combining PV strings Fact Sheet EN PV Combiner Box earthing Fact Sheet DE PV Combiner Box Erdung
Catalogues	Catalogues in PDF-format

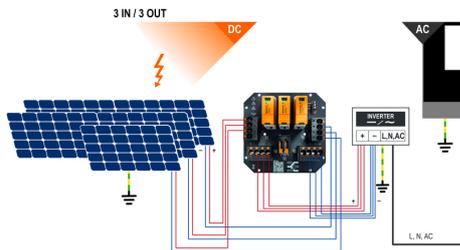
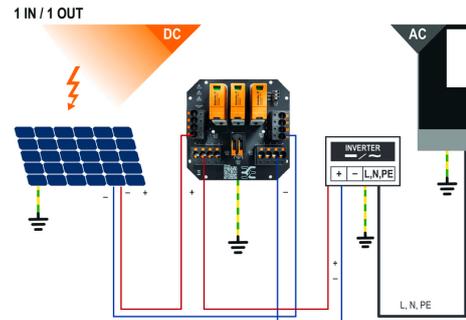
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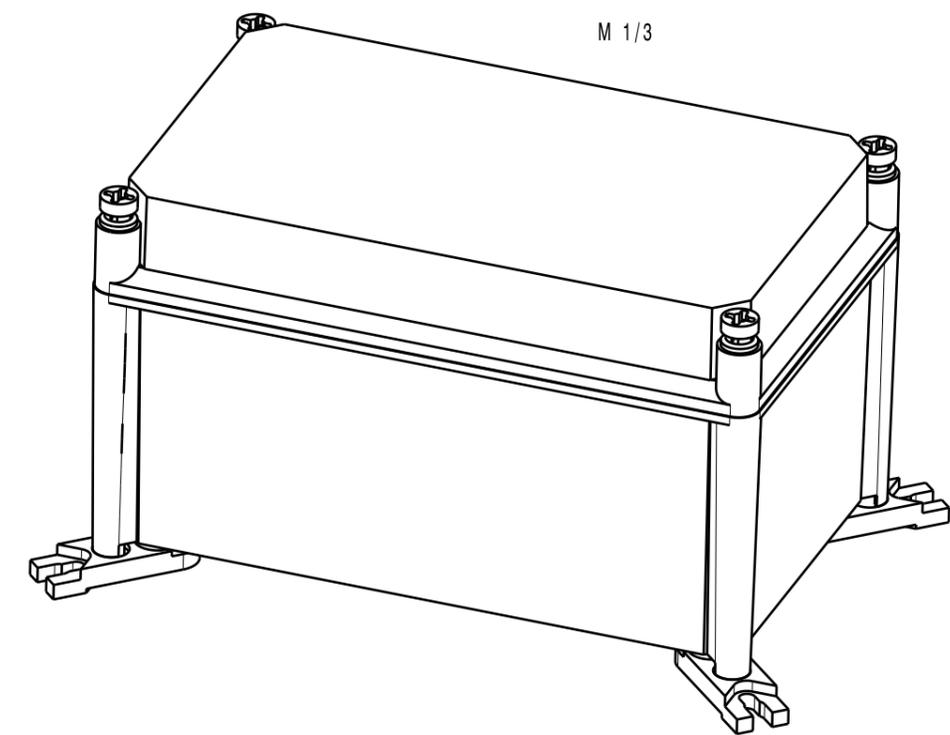
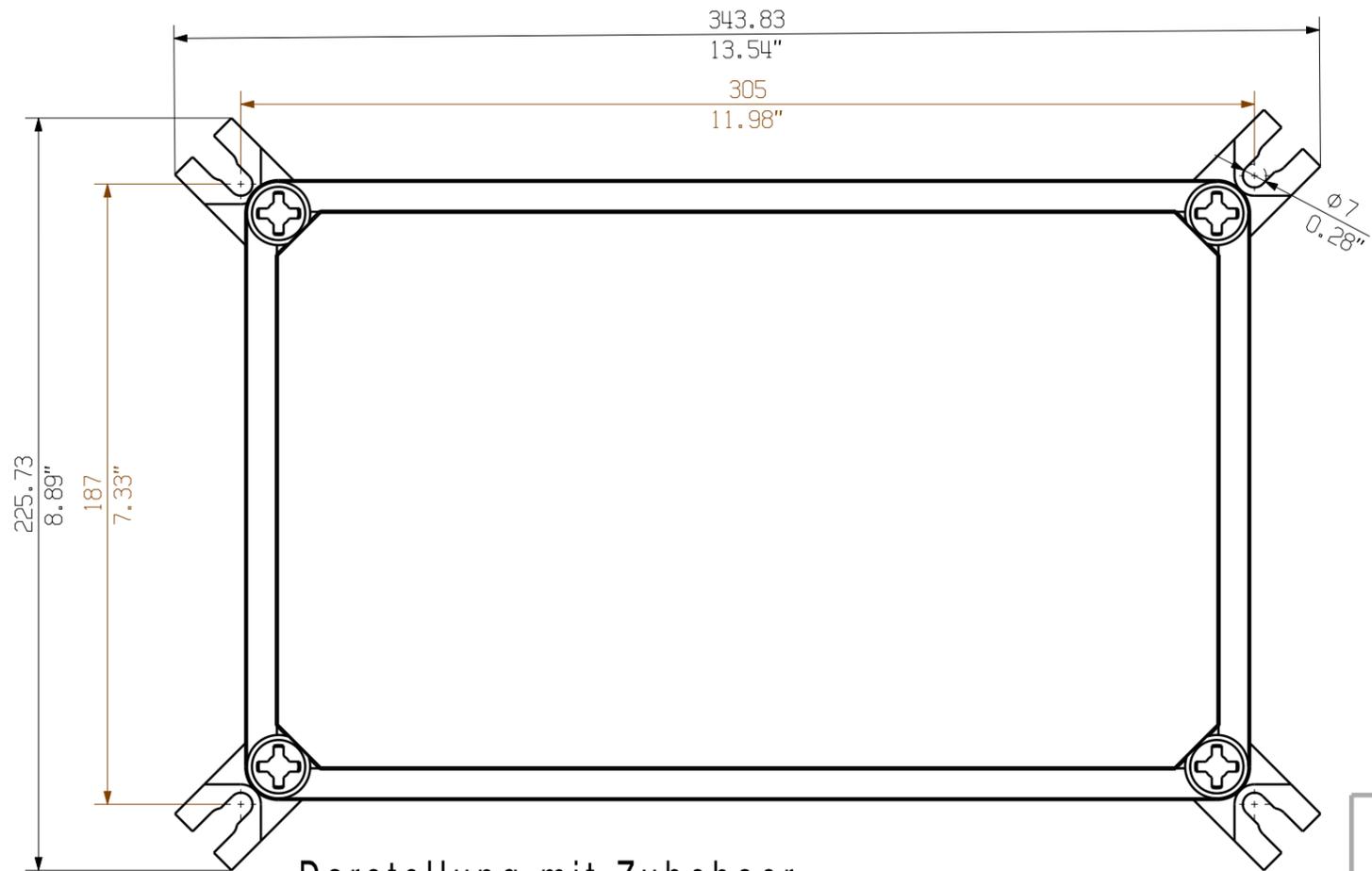
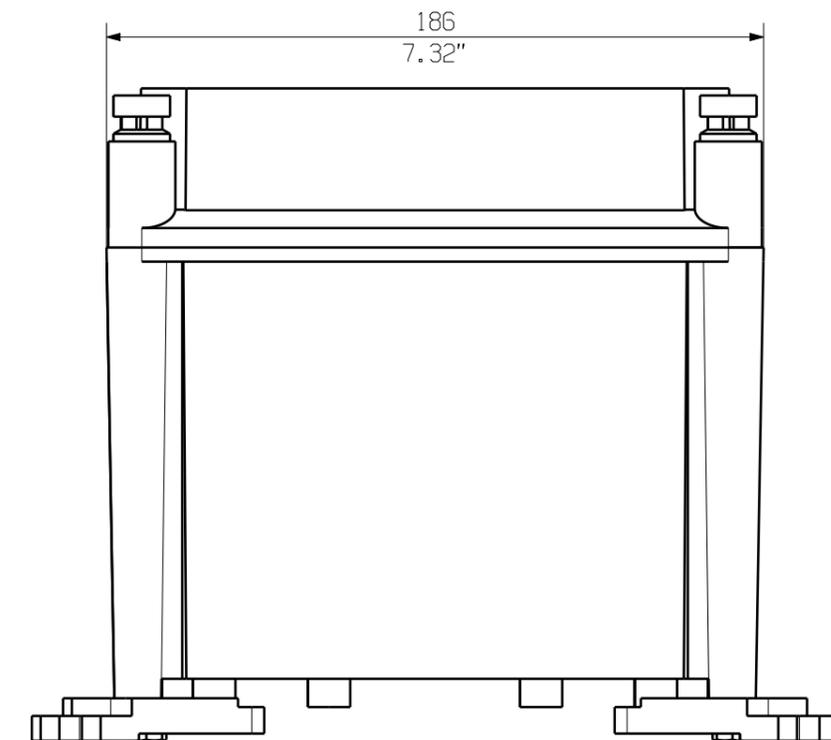
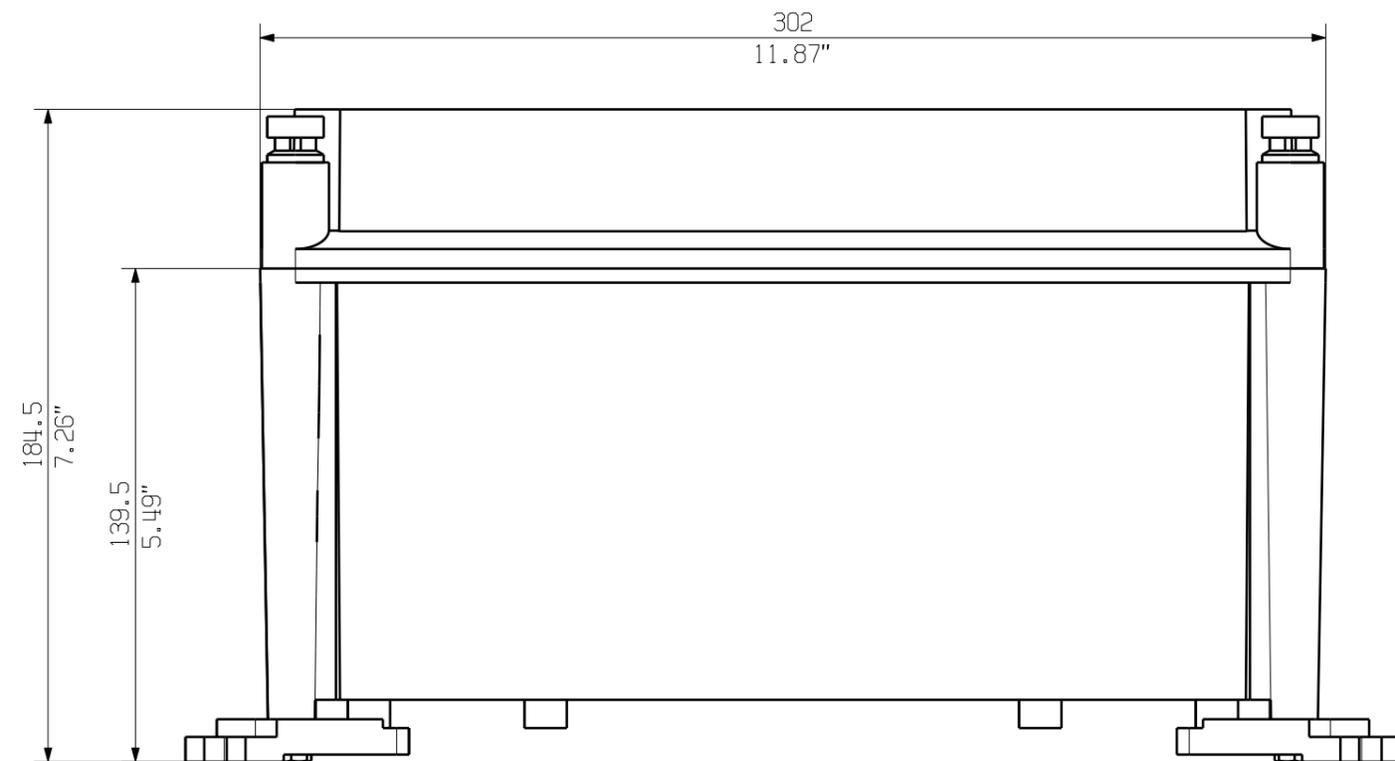
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Drawings

PCB design



PVN 1 M2 I6 S0 F3 V1 O1 TX PX 10	
Series	Voltage
PVN = PV Next	10 = 1kV
VPU = PV Protect	11 = 1.1kV
	15 = 1.5kV
Level	Power supply
1 = DC trunk box (L1)	x = n/a
Series	Monitoring
1 = 1 MPPT supported	x = n/a
2 = 2 MPPT supported	
3 = 3 MPPT supported	Output Type
4 = 4 MPPT supported	0 = EG
6 = 6 MPPT supported	1 = VMAC
	2 = MCA-Exp 2
Inputs	SPD
1..12 inputs	0 = TYP II
Switch	1 = TYP I+II
x = n/a	X = No SPD
0 = manual switch	Fuses
1 = remote switch	x = n/a
	3 = only fuse holders



Darstellung mit Zubehoer 0360800000 MF TBF
 Shown with accessory

Nicht im Lieferumfang enthalten!
 Not included in delivery!

First Issue Date 29.01.2020		Max. nos. Modification		Prim PLM Part No.: 1215112		Prim ERP Part No.:	
Scale: 1/2		Size: A3				71728 Drawing no. Issue no. 0 Sheet 01 of 01 sheets	
Drawn		Date		Name		PVN TBF 301918 COMBINERBOX RESIDENTIAL/COMMERCIAL COMBINERBOX RESIDENTIAL/COMMERCIAL	
Responsible		Date		Name		Product file:	
Approved		31.01.2020		Püschner, Klau			
Drawings Customer							

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