

PVN1M1I3S0F3V1O1TXPX10
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Product image


PV Next: PV-Next, PV generator junction box for combination of 1-6 strings (input and output side) and connection to the inverter. Intelligent innovative design individual for every customer application. Advanced overvoltage protection, optional fuses and switch-disconnectors for optimum operation and safety for the system. In addition, all PV generator junction boxes comply with IEC/EN 61439-2 for maximum reliability of each component.

General ordering data

Version	Photovoltaics, Combiner Box, 1000 V, 1 MPPT, 3 Inputs / 3 Outputs per MPPT, With fuse holder, Surge protection I / II, Switch disconnector, WM4C
Order No.	2683090000
Type	PVN1M1I3S0F3V1O1TXPX10
GTIN (EAN)	4050118699906
Qty.	1 pc(s).
Replacement parts	2530600000 2534300000

Creation date October 30, 2021 12:14:21 PM CEST

Catalogue status 22.10.2021 / We reserve the right to make technical changes.

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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	302 mm
Width (inches)	11.89 inch	Net weight	3,244 g

Temperatures

Ambient temperature	-25 °C...+50 °C
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Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
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Guarantee

Time interval	5 years
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Electrical characteristics

Rated DC current per connection	Ambient temperature	-25 °C...+50 °C	
	Short-circuit at main output	Duration	10 h
		Factor	1.25 * I _{nc}
	Rated current	10 A	
Rated DC voltage	1,000 V DC		
Switching disconnector capacity	DC-PV-2, IEC 60947-3		

Enclosure

Connection type String	Plug WM4C	Cover	with cover, removeable
Enclosure attachment	Via the four holes under the cover screws	Insulating material	Polyester glass-fibre reinforced, Polycarbonate
Switch disconnecter execution	switch in cover	Type of mounting	Wall mounting

General data

Installation location	Protected outdoor area (>1 km from sea)	Protection degree	IP65
Standards	IEC 61439-2 ed 2.0, EN 61439-2:2011		

Inputs

Amount of Maximum Power Point Tracking	1 MPPT		
DC Input + & -	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.	2.5 mm ²
		Wire cross-section, max.	6 mm ²

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Functional earth connector	Cable entry	Number of cable entries	2
		Cable diameter, min.	5 mm
		Cable diameter, max.	10 mm
		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	Empty fuse holder		
Fuse-link standard	IEC 60269-1, IEC 60269-6, gPV (EN 60269-6)		
Max. number of DC inputs	per Maximum Power Point Tracking 3 inputs connected in parallel		
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	2
		Cable diameter, min.	5 mm
		Cable diameter, max.	10 mm
		Cable glands	M 16

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 Tracking 3 outputs connected in parallel		

Surge protection DC side

Discharge current I_n (8/20 μ s)	20 kA	Discharge current, max. (8/20 μ s)	40 kA
Lightning test current I_{imp} (10/350 μ s)	6.25 kA	Maximum continuous operating voltage UCPV mode +/-, -/PE, +/-PE	1,100 V DC
PV system voltage, max. U_{cpv}	1,100 V	Protection level U_p (+/-, -/PE, +/-PE)	≤ 3.8 kV
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 I/II
Short-circuit current I_{scpv}	11,000 A	Standards	IEC 61439-2 ed 2.0, EN 61439-2:2011
Standby power consumption P_C	< 0.2 W	Surge protection DC side	1000 V type I + II with remote contact, 1000 V type I + II
Total discharge current I_{total} (8/20 μ s)	50 kA	Total discharge current I_{total} (10/350 μ s)	12.5 kA

Classifications

ETIM 6.0	EC002928	ETIM 7.0	EC002928
ETIM 8.0	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		

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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 Pfg1169/08.07 /
 EN 50618:2021
 6 Fuse holder (order fuses
 10x38 separately)
 Up to 3 outputs,
 connection via WM4 C
 connector compatible
 with cable type TÜV 2
 Pfg1169/08.07 / EN
 50618:2021
 with DC switch
 1 surge protection 1000
 V type I + 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:
 302x302x175 mm
 According to standard,
 Low-voltage switchgear
 assemblies -
 Part 1: General
 specifications, (IEC
 61439-1:2011), BS EN
 61439-2:2017

Important note

Product information

Fuses are not included

Downloads

 Approval/Certificate/Document of
 Conformity

[EU Declaration of Conformity](#)

Engineering Data

[PV Next Schematic Diagram
STEP](#)

Technical Documentation

[customer drawing](#)

User Documentation

[Manual PV Next String Combiner Box
MANUAL PV NEXT IT/ES/FR](#)

Catalogues

[Catalogues in PDF-format](#)

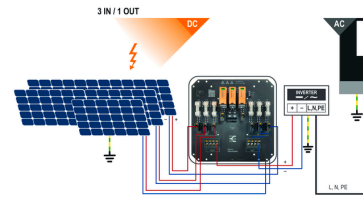
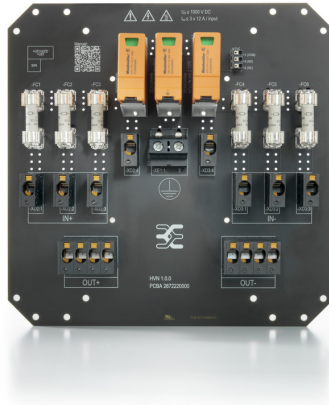
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Drawings

PCB design



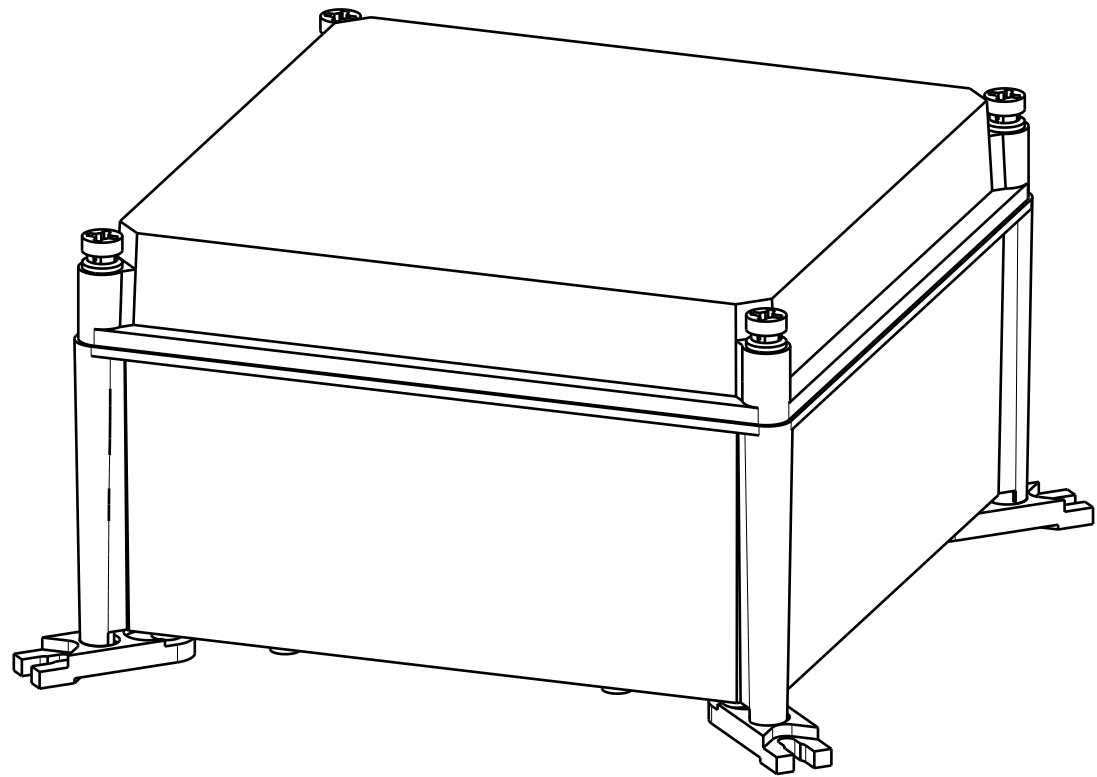
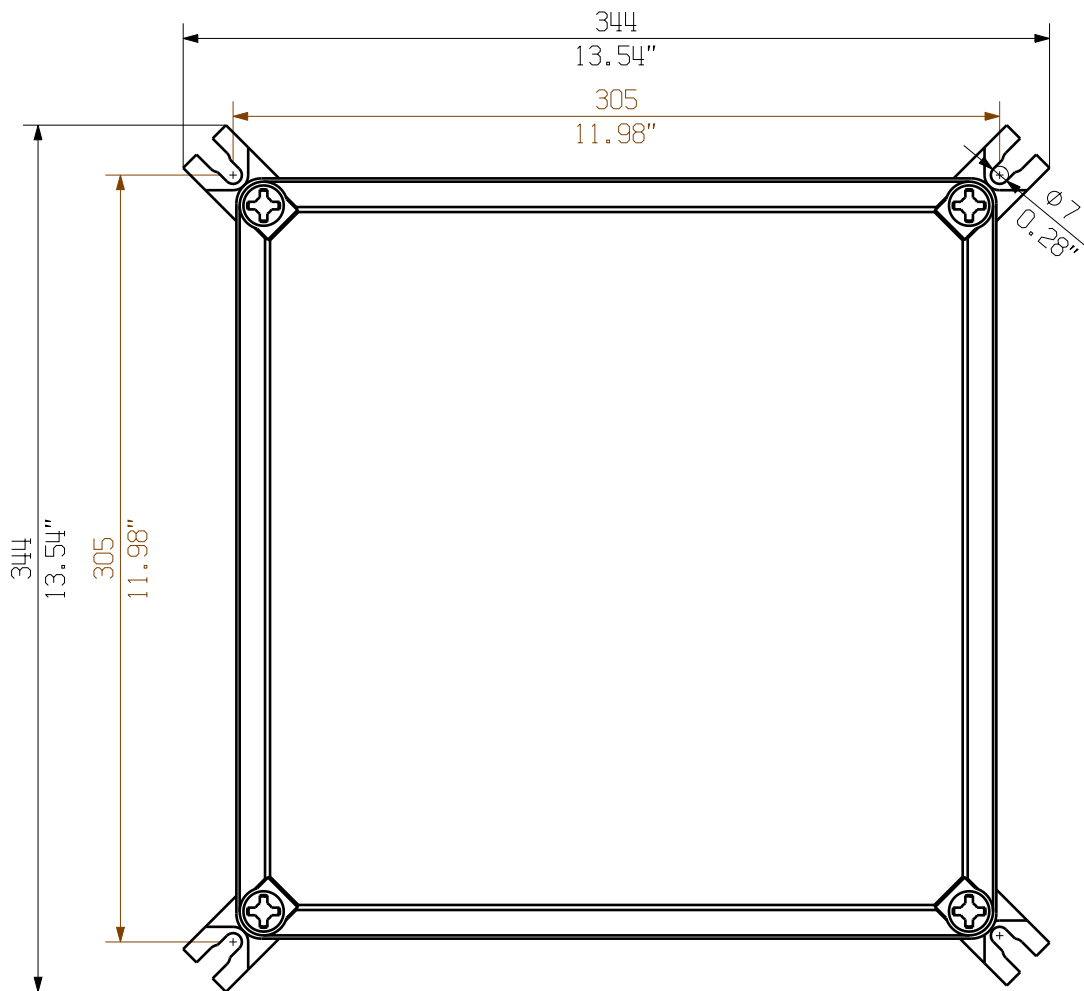
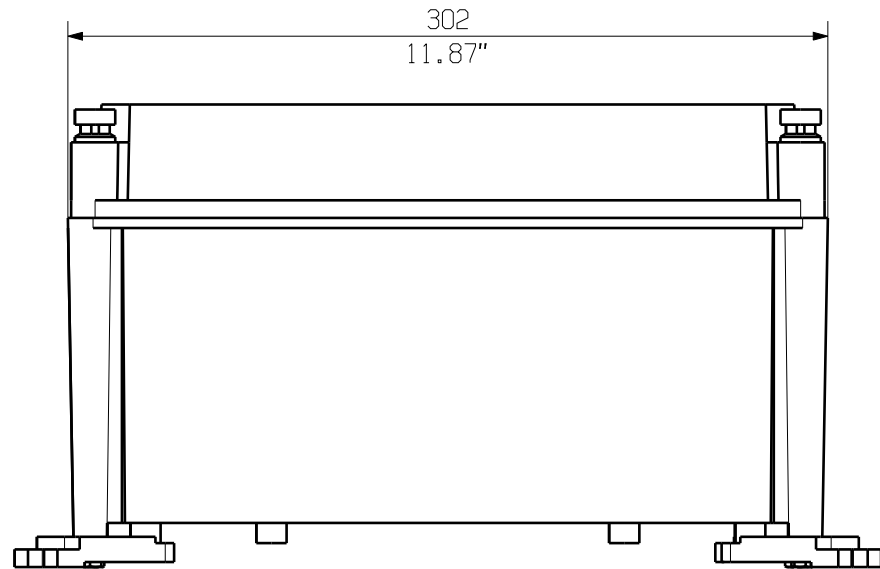
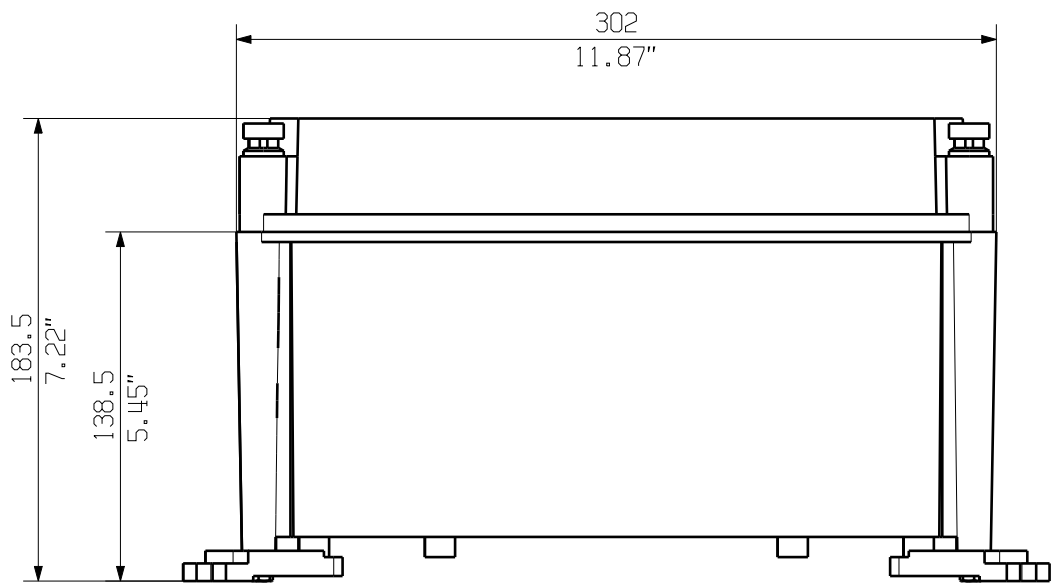
PVN 1 M2 I6 S0 F3 V1 O1 TX PX 10									
Series		Voltage		Powersupply		Monitoring		Output Type	
PVN = PV Next		10 = 1kV		x = n/a		x = n/a		0 = CG	
VPU = PV Protect		15 = 1.5kV		x = n/a		x = n/a		1 = WMAC	
Level		SPD		Fuses		Inputs		Switch	
1 = DC trunk box (L1)		2 = TYP II		x = n/a		1..12 inputs		x = n/a	
Series		1 = TYP III		3 = only fuse holders		0 = manual switch			
1 = 1 MPPT supported									
2 = 2 MPPT supported									
3 = 3 MPPT supported									
4 = 4 MPPT supported									
5 = 5 MPPT supported									
6 = 6 MPPT supported									

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Dimensions without tolerances are no check dimensions

The English version is binding



Darstellung mit Zubehoer
Shown with accessory 0360800000 MF TBF
Nicht im Lieferumfang enthalten!
Not included in delivery!

		Prim PLM Part No.: 1174506		Prim ERP Part No.:	
First Issue Date 29.01.2020	Max. nos.		Weidmüller 		71730 Drawing no. Issue no. Sheet 01 of 01 sheets
	Modification				
		Date	Name	PVN TBF 303018 COMBINERBOX RESIDENTIAL/COMMERCIAL COMBINERBOX RESIDENTIAL/COMMERCIAL	
	Drawn	29.01.2020	Brüntrup, Anna		
Responsible		Wohlgemuth, KI			
Approved	31.01.2020	Püschner, Klau			
Scale: 1/3 Size: A3				Product file:	
Drawings Customer					