

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).

Creation date April 16, 2021 8:05:37 AM CEST

Catalogue status 09.04.2021 / We reserve the right to make technical changes.

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Technical data
Dimensions and weights

Depth	175 mm	Depth (inches)	6.89 inch
Depth with add-on components	215 mm	Height	302 mm
Height (inches)	11.89 inch	Net weight	3,244 g
Width	302 mm	Width (inches)	11.89 inch

Temperatures

Ambient temperature	-25 °C...+50 °C
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Electrical characteristics

Rated DC current per connection	Rated current	10 A	
	Ambient temperature	-25 °C...+50 °C	
	Short-circuit at main output	Duration	10 h
		Factor	1.25 * I _{nc}
Rated DC voltage	1,000 V DC		
Switching disconnecter 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	Ployester 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		
Cartridge fuse	6x none preinstalled fuses		
DC Input + & -	Wire connection	Type of connection	WM4C plug-in connector
		Compatible cable crossection	TÜV 2 Pfg1169/08.07, EN 50618:2015
		Wire cross-section, min.	2.5 mm ²
		Wire cross-section, max.	6 mm ²
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		

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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	PV system voltage, max. U_{cpv}	1,100 V
Protection level U_p mode (+/-, -/PE, +/- PE)	≤ 3.8 kV	Protection level U_p mode (+/-)	≤ 3.8 kV
Protection level U_p mode (-/PE)	≤ 3.8 kV	Protection level U_p mode (+/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
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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Technical data

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](#)

Brochure/Catalogue

[Catalogues in PDF-format](#)

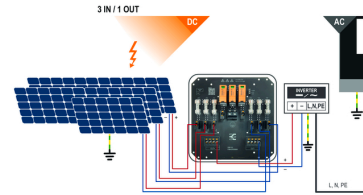
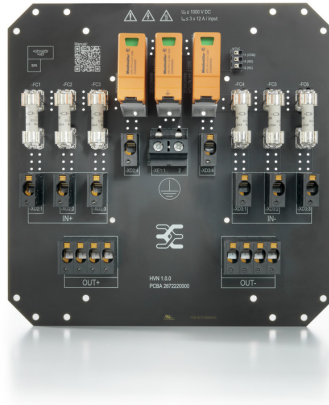
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Drawings

PCB design



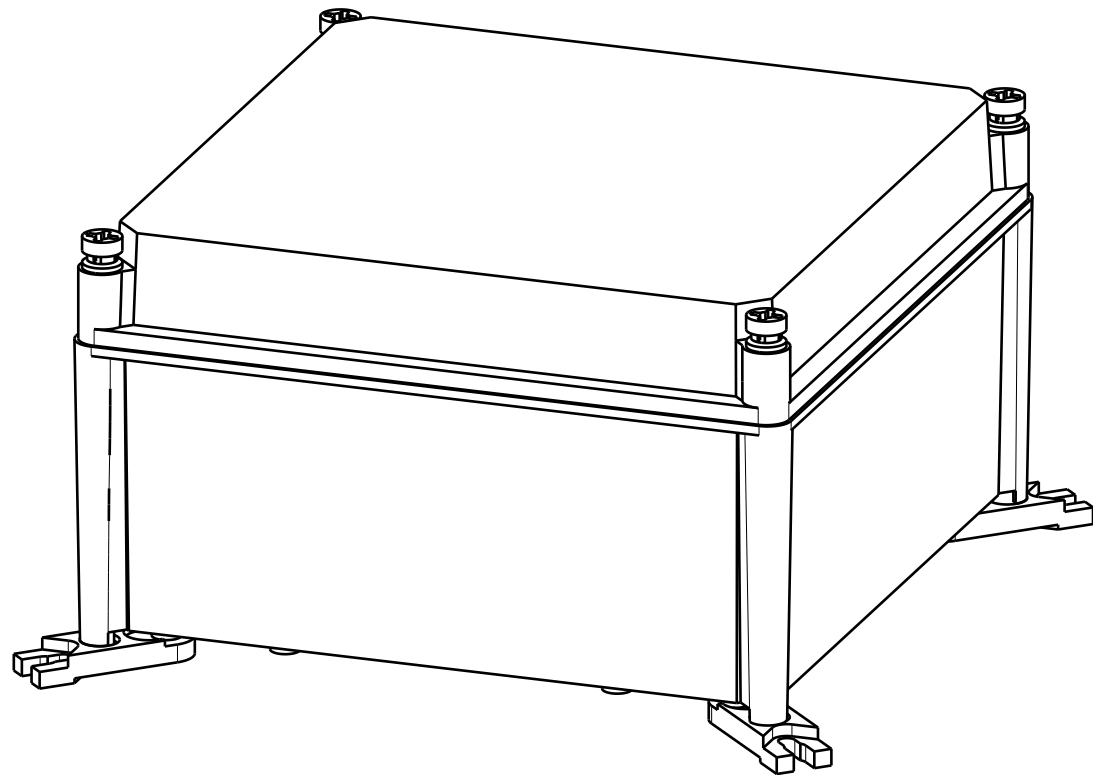
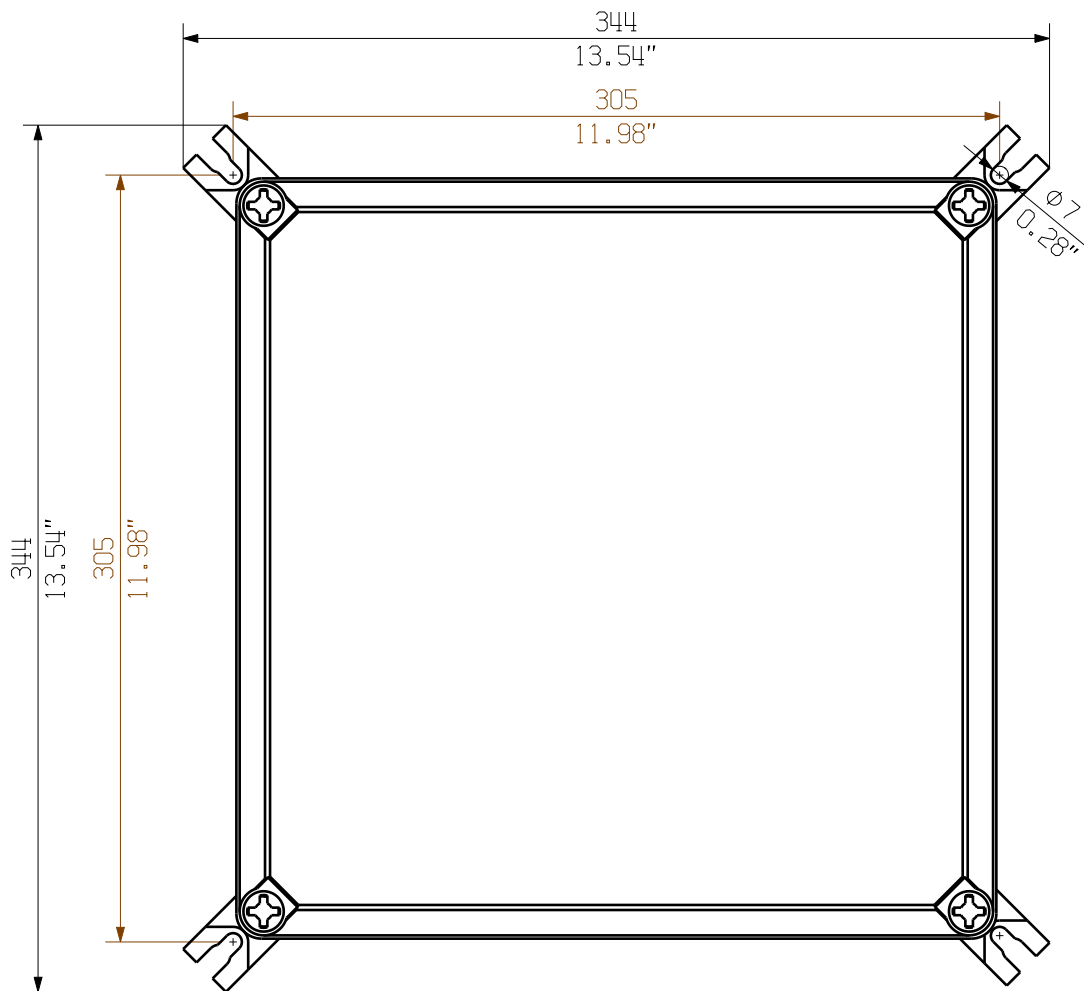
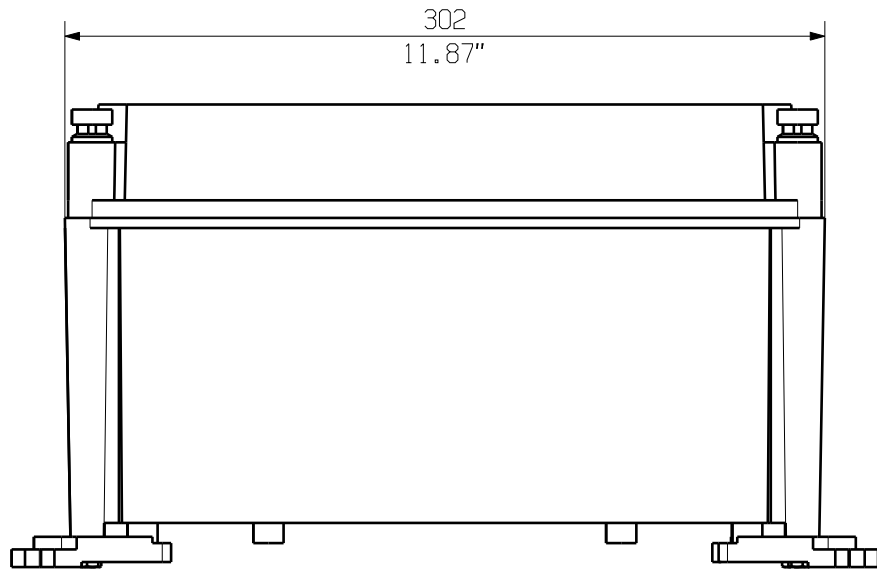
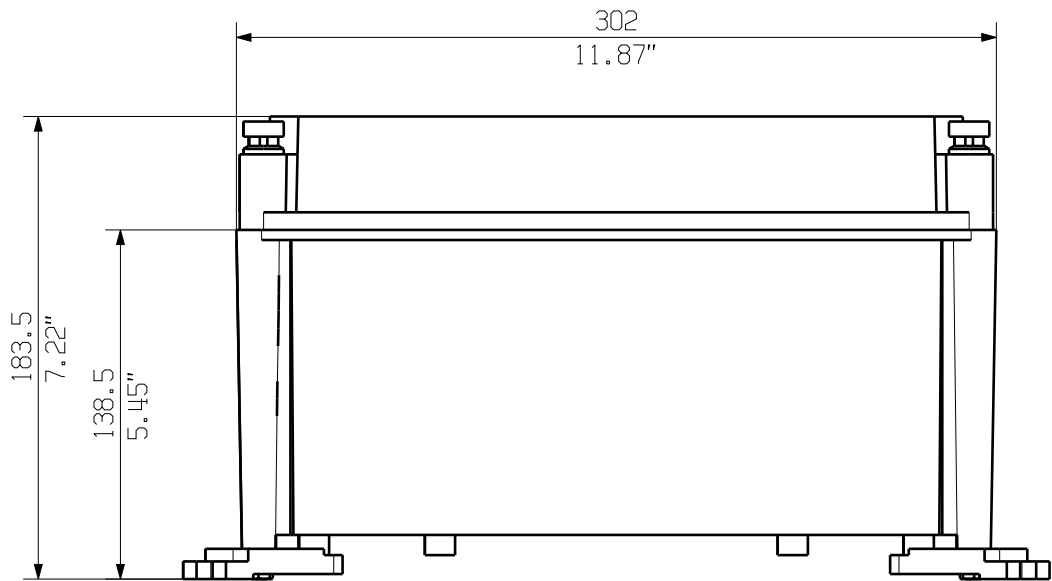
PVN 1 M2 I6 S0 F3 V1 O1 TX PX 10	
Series PVN = PV Next VPU = PV Protect	Voltage 10 = 10V 15 = 15.5V
Level 1 = DC trunk box (L1)	Powersupply x = n/a
Series 1 = 1 MPPT supported 2 = 2 MPPT supported 3 = 3 MPPT supported 4 = 4 MPPT supported 5 = 5 MPPT supported 6 = 6 MPPT supported	Monitoring x = n/a
Inputs 1...12 inputs	Output Type 0 = GG 1 = WMAC
Switch x = n/a 0 = manual switch	SPD 2 = TYP II 1 = TYP I+II
	Fuses x = n/a 3 = only fuse holders

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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.	
	Modification					
		Date	Name	PVN TBF 303018 COMBINERBOX RESIDENTIAL/COMMERCIAL COMBINERBOX RESIDENTIAL/COMMERCIAL		
	Drawn	29.01.2020	Brüntrup, Anna			
	Responsible		Wohlgemuth, Kl			
Scale: 1/3	Size: A3	Approved	31.01.2020			Püschner, Klau
Drawings Customer						Product file:

PVN TBF 303018
COMBINERBOX RESIDENTIAL/COMMERCIAL
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