

PVN1M1I3SFXV2O0TXPX10

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



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, Surge protection II, Cable gland
Order No.	2683310000
Type	PVN1M1I3SFXV2O0TXPX10
GTIN (EAN)	4050118700039
Qty.	1 pc(s).

Creation date April 16, 2021 8:07:27 AM CEST

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

PVN1M1I3SXFV200TXPX10

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data

Dimensions and weights

Depth	175 mm	Depth (inches)	6.89 inch
Height	302 mm	Height (inches)	11.89 inch
Net weight	7,715 g	Width	186 mm
Width (inches)	7.323 inch		

Temperatures

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

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		

Enclosure

Connection type String	Internal terminal (with cable gland feed-through)	Cover	with cover, removeable
Enclosure attachment	Via the four holes under the cover screws	Insulating material	Ployester glass-fibre reinforced, Polycarbonate
Switch disconnecter execution	no switch	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	PUSH IN
		Compatible cable crossection	EN 50618:2015, TÜV 2 Pfg 1169/08.07
		Wire cross-section, min.	2.5 mm ²
		Wire cross-section, max.	16 mm ²
Functional earth connector	Cable entry	Number of cable entries	1
		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	Neither fuse cartridge nor holder		
Max. number of DC inputs	per Maximum Power Point Tracking 3 inputs connected in parallel		

PVN1M1I3SXFV200TXPX10
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com
Technical data

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 mm
		Cable diameter, max.	10 mm
		Cable glands	M 16

Outputs

DC Output + & -	Wire connection	Wire cross-section, min.	2.5 mm ²
		Wire cross-section, max.	16 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
PV system voltage, max. U_{cpv}	1,100 V	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 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 II with remote contact, 1000 V type II	Total discharge current I_{total} (8/20 μ s)	50 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

PVN1M1I3SXFV200TXPX10
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com
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 M25 cable gland with
3x7mm Ø cable entry (for
positive and negative one
each)
PUSH IN connection / 2.5
- 6mm² single-wire, multi-
wire, with/without ferrule
Up to 3 outputs,
connection via M25 cable
gland with 3x7mm Ø
cable entry (for positive
and negative one each)
PUSH IN connection / 2.5
- 6mm² single-wire, multi-
wire, with/without ferrule

without 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
61439-2:2039

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

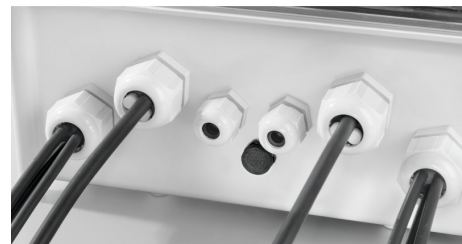
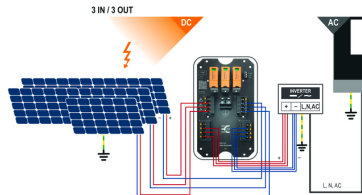
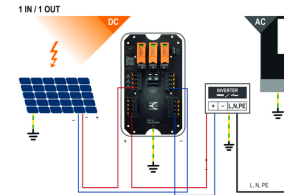
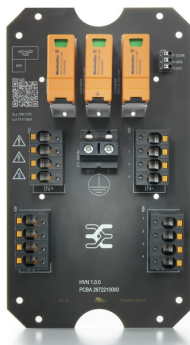
PVN1M1I3SXFV2O0TXPX10

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

www.weidmueller.com

Drawings

PCB design



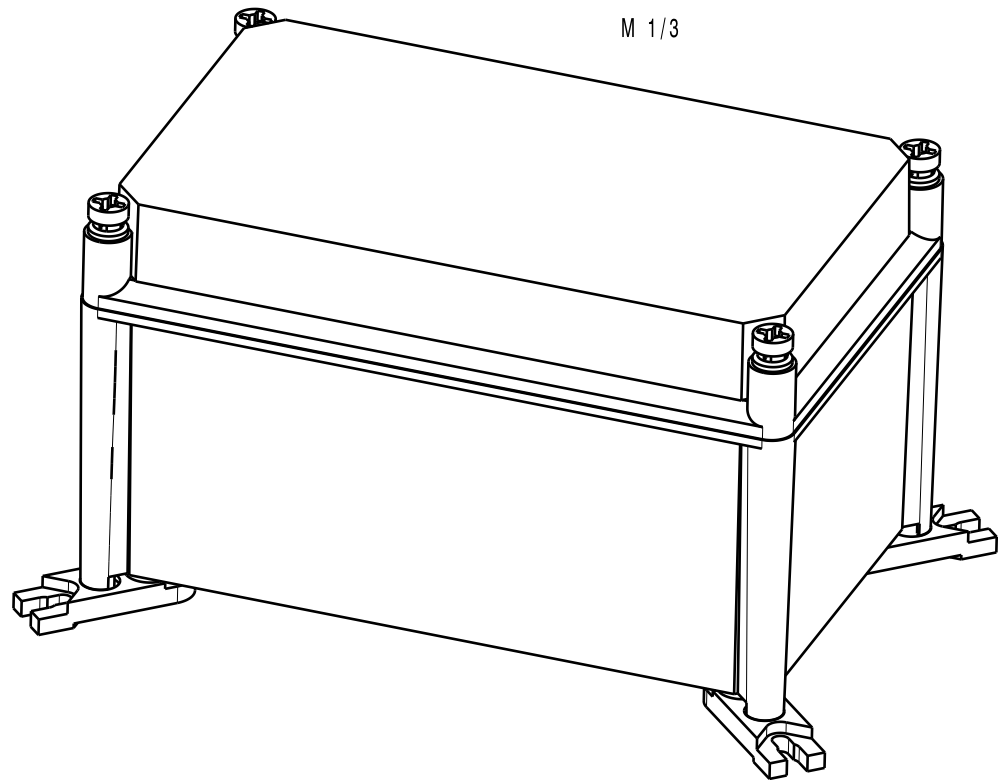
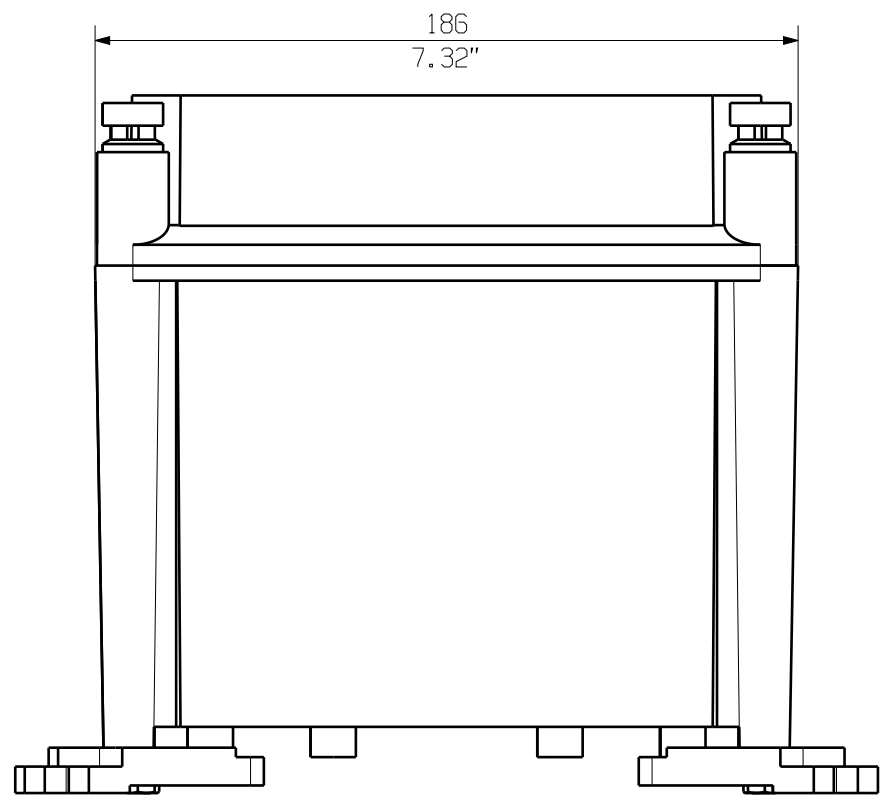
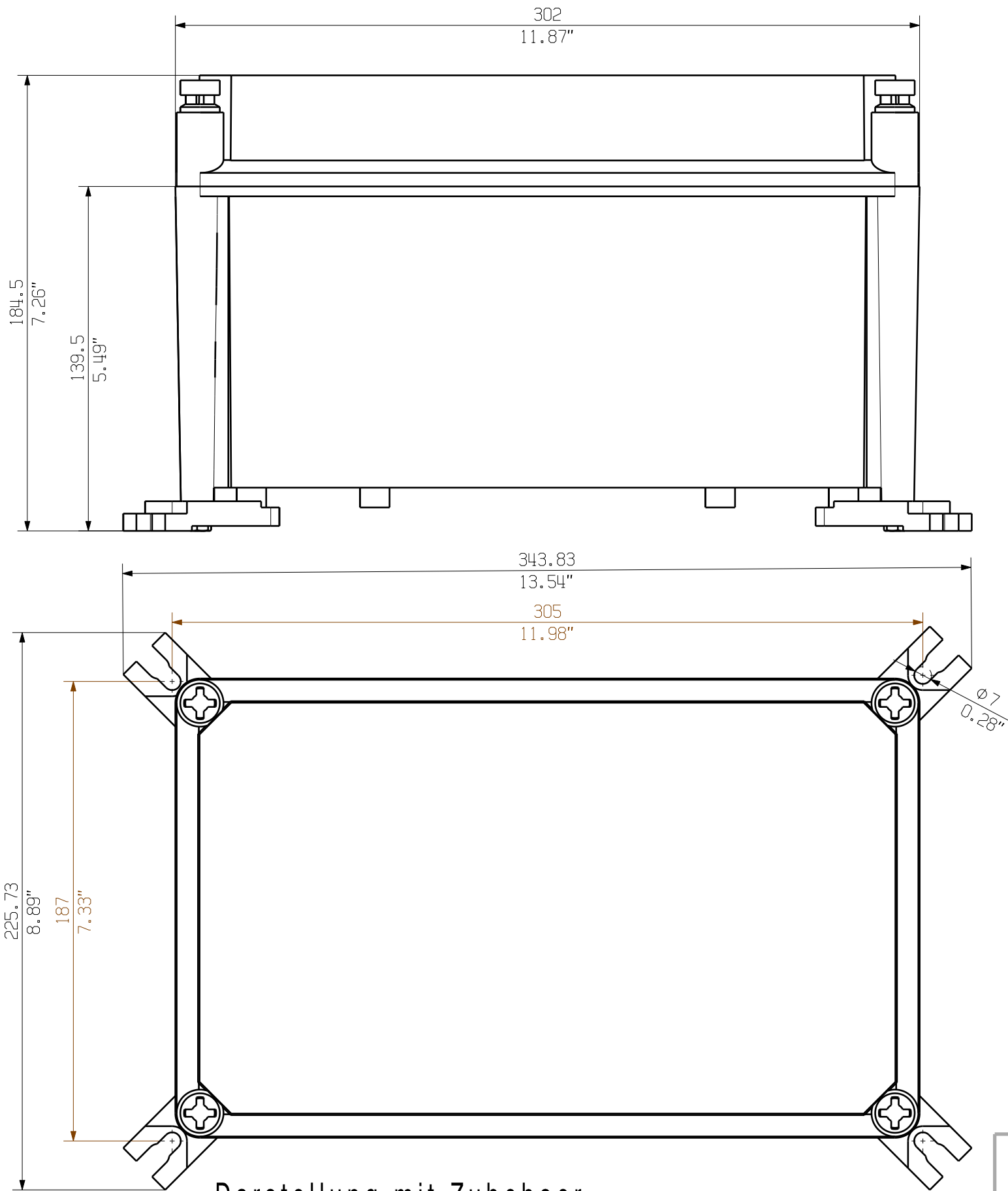
PVN 1 M2 I6 S0 F3 V1 01 TX PX 10	
Series PVN = PV Next VPU = PV Protect	Voltage 10 = 10V 15 = 15kV
Level 1 = DC trunk box (L1)	Powersupply x = n/a
Series 1 = 1 MPPT supported 2 = 2 MPPT supported 3 = 3 MPPT supported 4 = 4 MPPT supported 5 = 5 MPPT supported 6 = 6 MPPT supported	Monitoring x = n/a
Inputs 1...12 inputs	Output Type 0 = GG 1 = WMAAC
Switch x = n/a 0 = manual switch	SPD 2 = TYP II 1 = TYP I+II
	Fuses x = n/a 3 = only fuse holders

The reproduction, distribution and utilization of this document as well as the communication of its contents to others without explicit authorization is prohibited.
Offenders will be held liable for the payment of damages. Weidmüller exclusively reserves the right to file for patents, utility models or designs.

© Weidmüller Interface GmbH & Co. KG

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