

PVN1M1I6S0F3V001TXPX10**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, 6 Inputs / 6 Outputs per MPPT, With fuse holder, Surge protection II, Switch disconnecter, WM4C
Order No.	2737500000
Type	PVN1M1I6S0F3V001TXPX10
GTIN (EAN)	4050118824834
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Depth	249 mm	Depth (inches)	9.803 inch
Height	334 mm	Height (inches)	13.15 inch
Width	488 mm	Width (inches)	19.213 inch
Net weight	6,453 g		

Temperatures

Ambient temperature	-25 °C...+50 °C	Humidity	5 - 90 %, no condensation
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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

Current per MPPT, max.		90 A	
Rated DC current per connection	Current per string, max.	35 A via WM4 C	
	Ambient temperature	-25 °C...+50 °C	
	Short-circuit at main output	Factor	1.25 * I _{nc}
		Duration	10 h
	Current per string, max.	90 A via screw terminal	
	Ambient temperature	-25 °C...+50 °C	
Short-circuit at main output	Factor	1.25 * I _{nc}	
Rated DC voltage		1,000 V DC	
Switching disconnecter capacity		DC-PV1, IEC 60947-3	

Enclosure

Connection type String	Plug WM4C	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, 4 screws		

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	10 x 38 mm

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DC Input + & -	Wire connection	Type of connection	WM4C plug-in connector, PUSH IN
		Compatible cable crosssection	EN 50618:2015, TÜV 2 Pfg 1169/08.07
		Wire cross-section, min.	2.5 mm²
		Wire cross-section, max.	6 mm²
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 mm²
		w. wire end ferrule, DIN 46228 pt 1, max.	16 mm²
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 6 inputs connected in parallel		
Surge protection auxiliary contact	Cable entry	Cable diameter, min.	5
		Cable diameter, max.	10
		Cable glands	M 16
	Wire connection	Type of connection	Tension clamp connection with actuator
		Flexible, max. H05(07) V-K	1.5 mm²
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm²

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
		Type of connection	Screw connection
		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.	50 mm ²
Max. number of DC outputs	per Maximum Power Point Tracking 7 outputs connected in parallel		

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Surge protection DC side

Discharge current I_n (8/20 μ s)	20 kA	Discharge current, max. (8/20 μ s)	40 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 (+/-)	≤ 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	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
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	ECLASS 12.0	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 6 inputs, connected
 via WM4 C connector
 compatible with cable type
 TÜV 2 Pfg1169/08.07 /
 EN 50618:2015 12
 Fuse holder (order fuses
 10x38 separately) Up
 to 7 outputs, 1 of them
 via M25 cable gland
 (10-13mmØ) to screw
 terminal block 0.5mm² to
 50mm² single-wire, multi-
 wire, with ferrule up to
 35mm², the remaining
 6 connections via WM4
 C connector compatible
 with cable type TÜV 2
 Pfg1169/08.07 / EN
 50618:2015 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:488x334x249
 mm According to standard,
 Low-voltage switchgear
 assemblies - Part 1:
 General specifications, (IEC
 61439-1:2011), BS EN
 61439-2:2011

Important note

Product information

Fuses are not included

Approvals

Approvals



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Downloads

Approval/Certificate/Document of Conformity	EU Declaration of Conformity
Engineering Data	CAD data – PV Next Schematic Diagram 6In6Out Application notes – Fact Sheet DE PV CB Wie man Gebäude gegen Blitzeinschläge schützt Application notes – Fact Sheet DE PV Wie man die Lebensdauer eines GAK verlängert Application notes – Fact Sheet DE PV CB Wann Sicherungen zu installieren sind Application notes – Fact Sheet DE CB PV NEXT Application notes – Fact Sheet EN PV CB When DC fuses are mandatory to install Application notes – Fact Sheet EN CB PV NEXT Application notes – Fact Sheet EN PV How to protect buildings against lightning strikes Application notes – Fact Sheet EN PV How to extend the life time of a Combiner Box
Technical Documentation	Customer Drawing
User Documentation	Manual PV Next String Combiner Box MANUAL PV NEXT IT/ES/FR
Catalogues	Catalogues in PDF-format

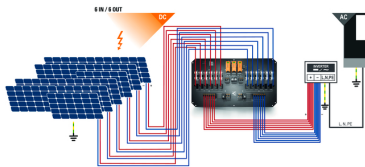
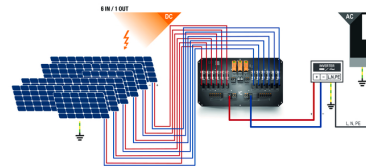
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Drawings

PCB design

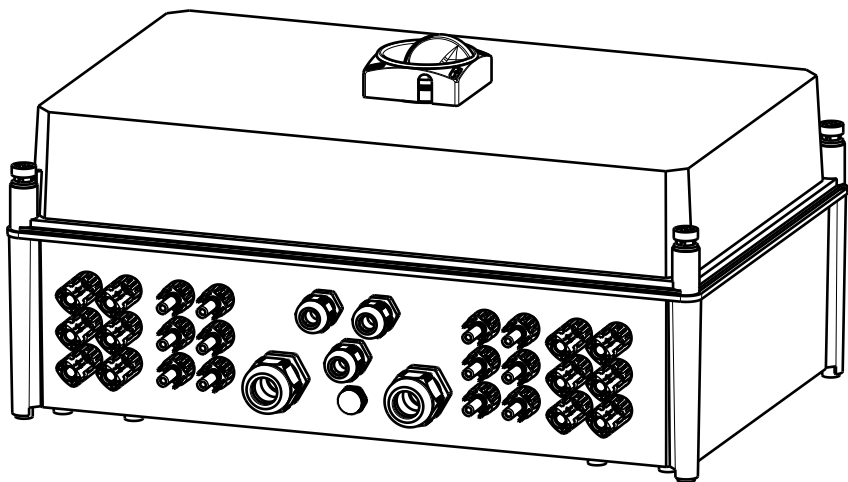
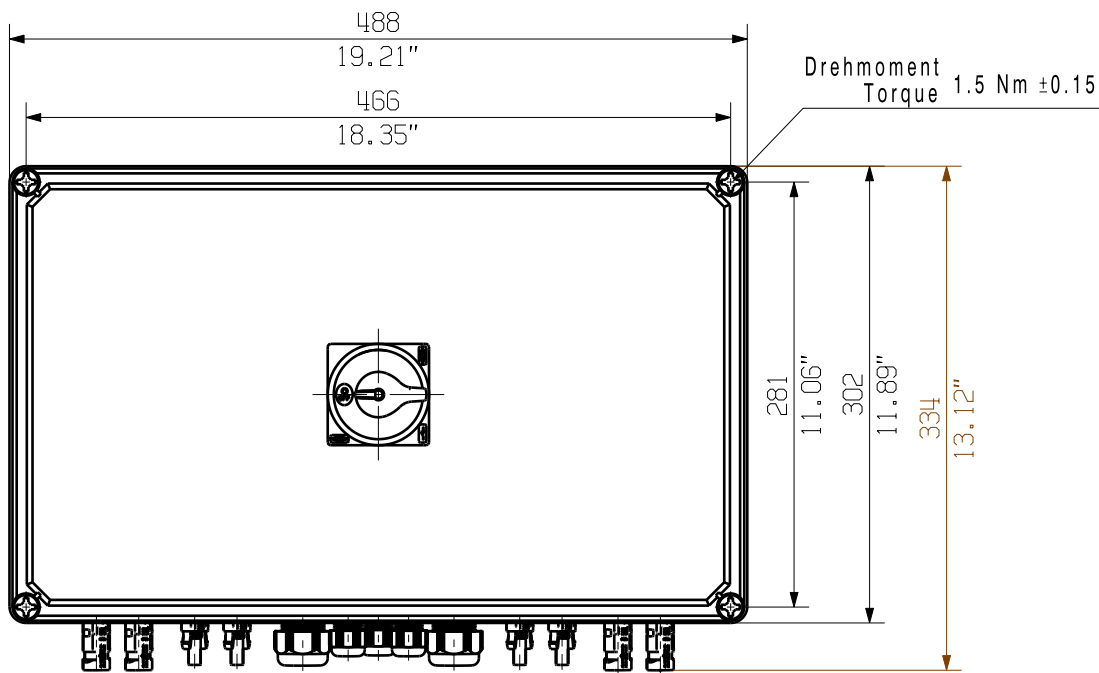
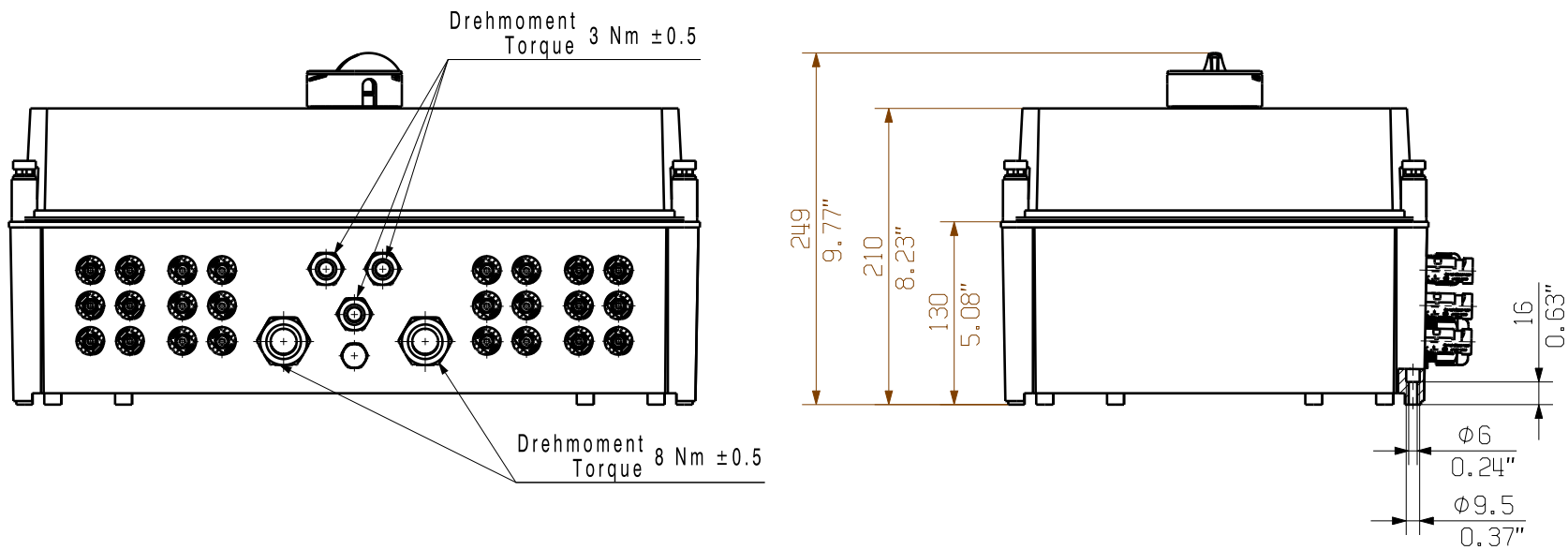


PVN 1 M2 I6 S0 F3 V1 01 TX PX 10									
Series		Voltage		Powersupply		Monitoring		Output Type	
PVN = PV Next		10 = 1kV		x = n/a		x = n/a		0 = GG	
VPU = PV Protect		11 = 1.1kV						1 = VMAC	
Level		Inputs		SPD		Fuses			
1 = DC trunk box (L1)		1...12 inputs		0 = TYP II		x = n/a			
Series		Switch		1 = TYP I+II		3 = only fuse holders			
1 = 1 MPPT supported		x = n/a		X = No SPD					
2 = 2 MPPT supported		0 = manual switch							
3 = 3 MPPT supported		1 = remote switch							
4 = 4 MPPT supported									
6 = 6 MPPT supported									

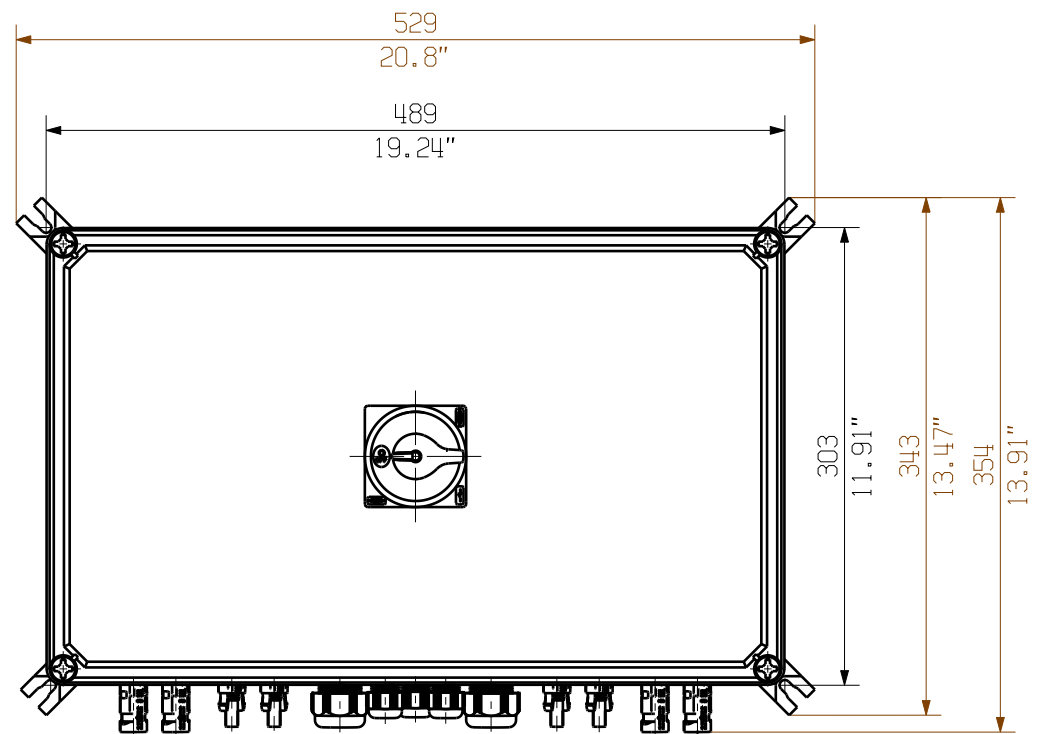
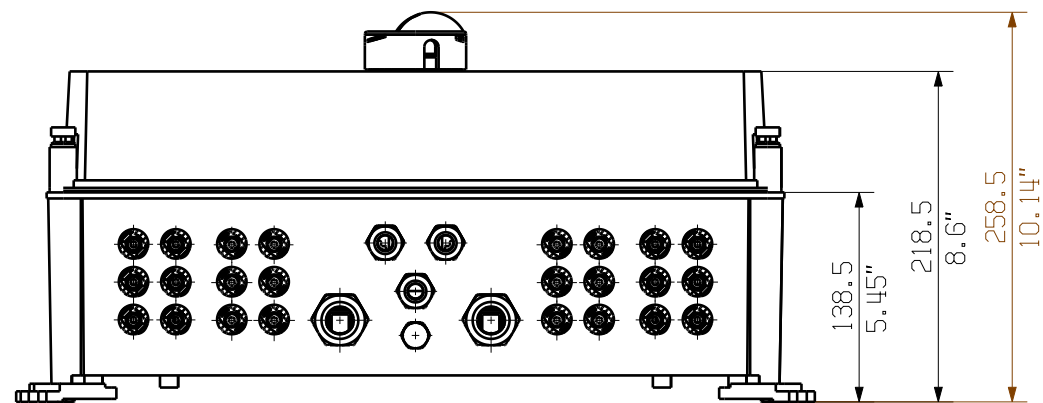
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Dimensions without tolerances are no check dimensions



The English version is binding



Darstellung mit Zubehoer
Shown with accessory 0360800000 MF TBF

Nicht im Lieferumfang enthalten!
Not included in delivery!

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