

PVN1M2I4S1FXVXO1TXPX11

Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com



General ordering data

Version	Photovoltaics, Combiner Box, Fireman's switch, 2 MPPT's, 2 Inputs / 1 Output per MPPT, Remote disconnecter, WM4C, 1100 V
Order No.	2778880000
Type	PVN1M2I4S1FXVXO1TXPX11
GTIN (EAN)	4064675047636
Qty.	1 Stück

Erstellungs-Datum December 22, 2022 10:52:06 AM CET

Katalogstand 16.12.2022 / Technische Änderungen vorbehalten

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Dimensions and weights

Depth	132 mm	Depth (inches)	5.197 inch
Height	370 mm	Height (inches)	14.567 inch
Width	200 mm	Width (inches)	7.874 inch
Net weight	2,534 g		

Temperatures

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

Time interval	5 years
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Electrical characteristics

Current per MPPT, max.		35 A	
Rated DC current per connection	Current per string, max.	35 A	
	Ambient temperature	-25 °C...+50 °C	
	Short-circuit at main output	Duration	10 h
		Factor	1.25 * I _{nc}
Rated DC voltage		1,100 V DC	
Switching disconnecter capacity		IEC 60947-3, DC-PV1	

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	Remote disconnecter on enclosure
Type of mounting	Wall mounting, 4 screws		

General data

Installation location	Protected outdoor area (>1 km from sea)	Protection degree	IP65
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Inputs

Amount of Maximum Power Point Tracking	2 MPPT's		
DC Input + & -	Wire connection	Type of connection	WM4C plug-in connector
		Compatible cable cross-section	EN 50618:2015, TÜV 2 Pfg 1169/08.07
		Wire cross-section, min.	4 mm ²
		Wire cross-section, max.	6 mm ²
Fuse type	Neither fuse cartridge nor holder		
Max. number of DC inputs	per Maximum Power Point Tracking 2 inputs connected in parallel		

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Outputs

DC Output + & -	Wire connection	Type of connection	WM4C plug-in connector
		Compatible cable crossection	TÜV 2 Pfg1169/08.07, 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 1 output	

Remote disconnecter

Automatic reclosing after voltage drop		Yes	
Number of operating cycles		10,000	
Remote disconnecter auxiliary contact	Cable entry	Number of cable entries	1
	Wire connection	Type of connection	Screw terminal connectors
		Flexible, max. H05(07) V-K	0.25 mm ²
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²
Remote disconnecter control contact	Cable entry	Number of cable entries	1
	Wire connection	Type of connection	Screw terminal connectors
		Flexible, max. H05(07) V-K	4 mm ²
		w. wire end ferrule, DIN 46228 pt 1, max.	4 mm ²
Type of power circuit disconnection		Under voltage tripping or manual switch operation	

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 2 Mpp tracker,
designed for remote
disconnection of the
DC side by the Fire
Department. Max. String
voltage Uoc: 1100 V.

MPPT1:
Up to 2 inputs, connection
via WM4 C connector,
compatible with cable type
TÜV 2 Pfg1169/08.07 /
EN 50618:2052.
1 output, connection
via WM4 C connector,
compatible with cable type
TÜV 2 Pfg1169/08.07 /
EN 50618:2052.

MPPT 2 is identical to
MPPT 1.

With DC firemans switch.
Disconnection possible via
undervoltage tripping or
knob switch.
Automatic switch-on after
the control voltage is
applied again.
With signal contact.

Connection of the
firemans switch 230 VAC
control wire via cable
glands (8-12mmØ) max.
conductor cross-section:
1.5mm².
connection of the signal
contact 24 VDC via cable
glands (8-12mmØ) max.
conductor cross section:
1.5mm².
protection class: IP65.
All built in a plastic
housing.
Dimensions HxWxD:
200x369x132mm.

According to the standard,
Low-voltage switchgear
and controlgear
assemblies -
Part 1: General
requirements (IEC
61439-1 modified) + BS
EN 61439-2:2011.

Environmental Product Compliance

REACH SVHC	Lead 7439-92-1
SCIP	6fa827d5-3d5f-4912-b8b1-9da197066962

Erstellungs-Datum December 22, 2022 10:52:06 AM CET

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PVN1M2I4S1FXVX01TXPX11

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Important note

Product information

Intended use of the UPS: This UPS has been especially developed as a safety device for direct current (DC) photovoltaic installations. The DC disconnect switch is used to disconnect the connected strings of the installation in case of an emergency situation. Such an emergency situation could be in case of fire.

Normal operation: The UPS will automatically switch to the off position, breaking the DC connection between the solar panels and the inverter, after the AC power to the UPS is interrupted for longer than five seconds. The UPS will automatically switch to the on position, restoring the DC connection between the solar panels and the inverter, once the AC power to the UPS is restored longer than five seconds.

Special Operation: If the temperature inside the UPS enclosure exceeds the 100°C, the UPS will automatically switch to OFF to protect the internal components and create a safe situation. When the installation is checked and the UPS is not affected, the UPS can be switched ON again by removal and re-applying the AC voltage to the UPS. The UPS will also automatically switch to OFF if there is an internal failure. If this occurs please try to reset the UPS by removal and re-applying the AC voltage to the UPS.

Emergency switch not included.

Approvals

Approvals



Downloads

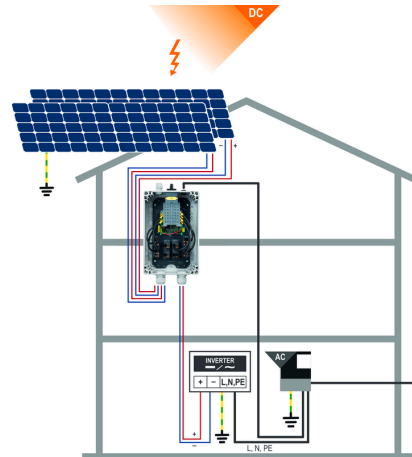
Engineering Data	CAD data – STEP Application notes – Schematic Diagram for PV Next Fireman Switch
Technical Documentation	PVN1M2I4S1FXVX01TXPX11
User Documentation	MANUAL PV NEXT RD DE/EN
Catalogues	Catalogues in PDF-format

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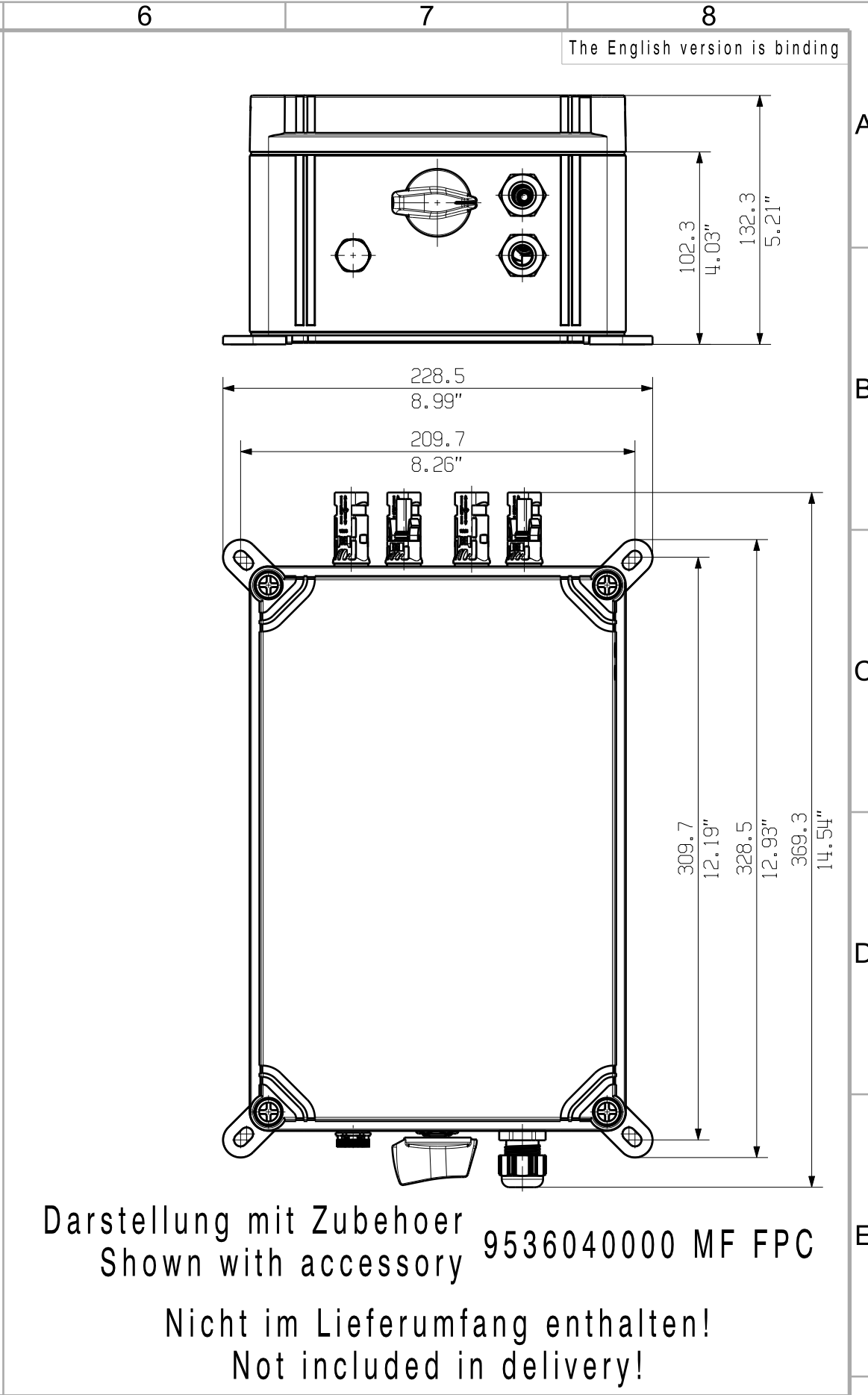
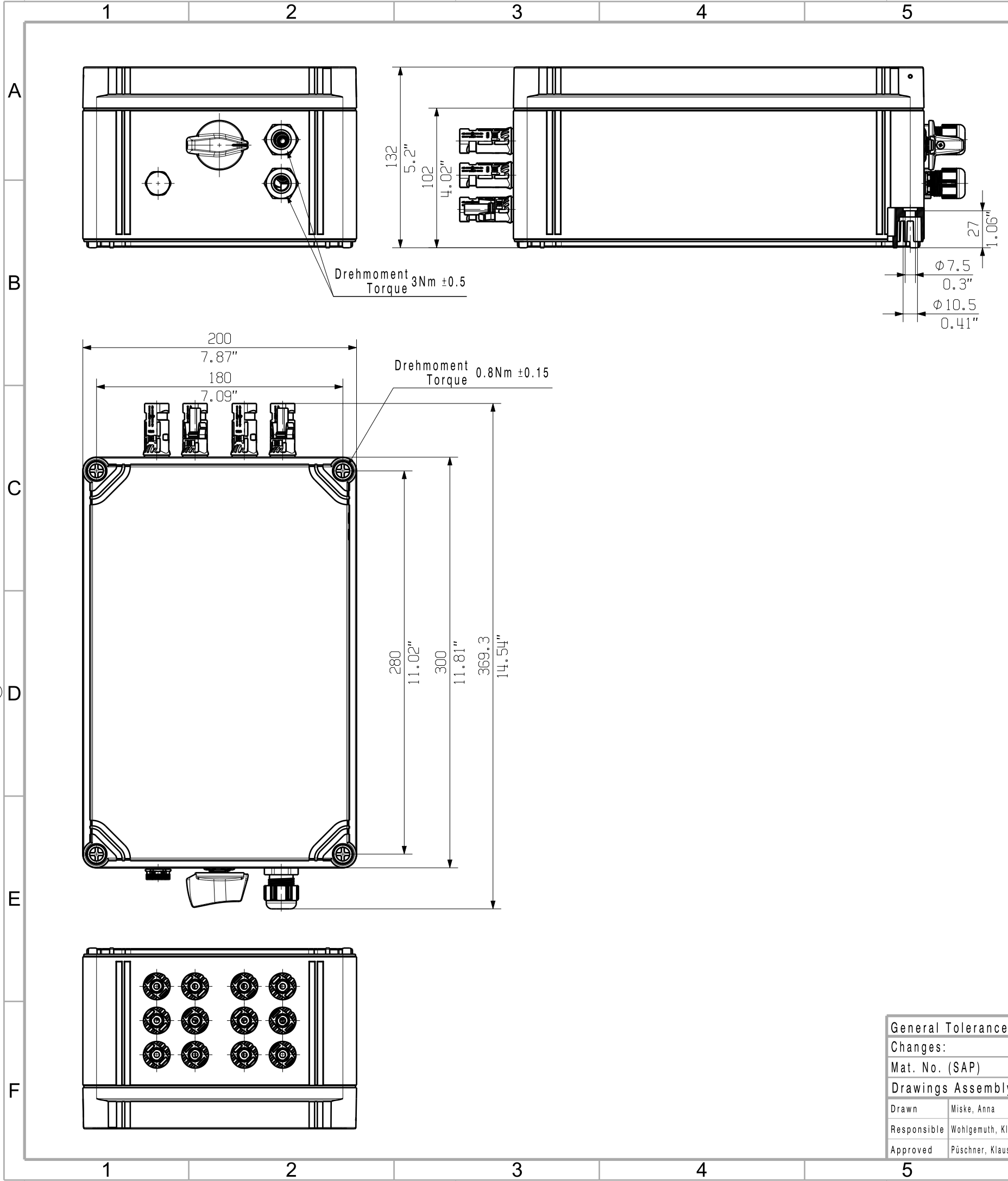
Zeichnungen



PVN 1 M2 I6 S0 F3 V1 Q1 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 = VVAC	
		15 = 1.5kV						2 = MCA-5m 2	
Level		Inputs		Switch		SPD		Fuses	
1 = DC trunk box (L1)		1...12 inputs		x = n/a		0 = TYP II		x = n/a	
Series				0 = manual switch		1 = TYP I+II		3 = only fuse holders	
1 = 1 MPPT supported				1 = remote switch		X = No SPD			
2 = 2 MPPT supported									
3 = 3 MPPT supported									
4 = 4 MPPT supported									
6 = 6 MPPT supported									

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General Tolerances: ☐ WN700144-W.. ☐ WN 212010 ☐ ISO 2768-mK			Tolerances ISO 8015	
Changes:			75774 Drawing no. 0 Index	
Mat. No. (SAP) 2778880000			Weidmüller  2778880000 PVN1M2I4S1FXVX01TXPX11 COMBINERBOX RESIDENTIAL/COMMERCIAL COMBINERBOX RESIDENTIAL/COMMERCIAL	
Drawings Assembly				
Drawn	Miske, Anna			
Responsible	Wohlgemuth, Klaus			
Approved	Püschner, Klaus			
		16.09.2021		