

## PVN1M1I6S0F3V000TXPX10

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

[www.weidmueller.com](http://www.weidmueller.com)



PV Next combiner boxes for inverters with 1 to 12 MPP trackers are used to protect the DC side of a photovoltaic system. The combiner boxes protect the inverter against overvoltages and thus comply with the European Directive CLC/TS 5 1643-32. In addition, these products offer the possibility to protect the system against reverse currents and the possibility to combine strings to save cables during installation.

### General ordering data

Version	Photovoltaics, Combiner Box, 1000 V, 1 MPP, 6 Inputs / 6 Outputs per MPP, With fuse holder, Surge protection II, Switch disconnecter, Cable gland
Order No.	<a href="#">2737550000</a>
Type	PVN1M1I6S0F3V000TXPX10
GTIN (EAN)	4050118824858
Qty.	1 items
Delivery status	Discontinued
Last order date	2024-12-31T00:00:00+01:00
Alternative product	<a href="#">PVN DC 6IF 70 1MPP SW SPD 1R CG 10</a>

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## Technical data

### Approvals

Approvals



### Dimensions and weights

Depth	249 mm	Depth (inches)	9.8031 inch
Height	330 mm	Height (inches)	12.9921 inch
Width	488 mm	Width (inches)	19.2126 inch
Net weight	6453 g		

### Temperatures

Ambient temperature	25 °C...40 °C	Humidity	5 - 90 %, no condensation
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### Environmental Product Compliance

RoHS Compliance Status	Compliant
REACH SVHC	Lead 7439-92-1
SCIP	bdab5698-6a20-4370-8e28-8810d882d01a

### Approvals and norms

Approvals	EN 61439-2, IEC 61439-2
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### Guarantee

Time interval	5 years
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### Electrical characteristics

Rated DC voltage	1000 V		
Rated short-term current resistance	Rated current	112.5 A	
Current per Maximum Power Point, max. 90 A			
Rated DC current per connection	Current per string, max.	76.00 A	
	Current per string, max.	90.00 A	

### Enclosure

Insulating material	Polyester glass-fibre reinforced, Polycarbonate	Type of mounting	Wall mounting, 4 screws
Impact resistance	IK08 in accordance with IEC 62208, IK10 in accordance with IEC 62262	Enclosure attachment	Via mounting feet
Connection type string	Internal terminal (with cable gland feed-through)		

### General data

Protection degree	IP65	Installation location	Protected outdoor area (Land and Sea)
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### Inputs

Cartridge fuse	10 x 38 mm			
Fused poles of string	+/-			
Fuse-link standard	IEC 60269-1, IEC 60269-6, gPV (EN 60269-6)			
Amount of maximum power points (MPP)	1			
Functional earth connector	Cable entry	Number of cable entries	1	
		Cable diameter, min.	5 mm	
		Cable diameter, max.	10 mm	
	Cable gland	M 16		
	Wire connection	Type of connection	Screw connection	
		Flexible, max. H05(07) V-K	25 mm <sup>2</sup>	
w. wire end ferrule, DIN 46228 pt 1, max.		16 mm <sup>2</sup>		
Number of conduit inlets	2			
DC Input + & -	Wire connection	Type of connection	PUSH IN	
		Compatible cable cross-section	EN 50618:2015	
		Wire cross-section, min.	2.5 mm <sup>2</sup>	
		Wire cross-section, max.	16 mm <sup>2</sup>	
Fuse type	Empty fuse holder			
Fuses	Yes			
Max. number of DC inputs	per Maximum Power Point 6 inputs connected in parallel			
Number of string inputs per MPP	≥ 4...≤ 6			
Surge protection auxiliary contact	Cable entry	Cable diameter, min.	5 mm	
		Cable diameter, max.	10 mm	
		Cable gland	M 16	
	Wire connection	Type of connection	Tension clamp connection with actuator	
		Flexible, max. H05(07) V-K	1.5 mm <sup>2</sup>	
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm <sup>2</sup>	
Number of inputs	6			

### Outputs

Max. number of DC outputs	per Maximum Power Point 7 outputs connected in parallel			
DC Output + & -	Wire connection	Type of connection	PUSH IN	
		Compatible cable cross-section	TÜV 2 Pfg 1169/08.07	
		Wire cross-section, min.	2.5 mm <sup>2</sup>	
		Wire cross-section, max.	16 mm <sup>2</sup>	
		Type of connection	Screw connection	
		Compatible cable cross-section	TÜV 2 Pfg 1169/08.07	
		Wire cross-section, min.	2.5 mm <sup>2</sup>	
		Wire cross-section, max.	50 mm <sup>2</sup>	

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### Surge protection DC side

Discharge current, max. (8/20 µs)	40 kA	Standby power consumption PC	<0.2 W
Short-circuit current ISCPV	11000 A	Total discharge current I <sub>total</sub> (8/20µs)	50 kA
Discharge current I <sub>n</sub> (8/20 µs)	20 kA	Requirements class	Type II
Protection level U <sub>p</sub> (-/PE)	≤ 3.8 kV	Protection level U <sub>p</sub> (+/-)	≤ 3.8 kV
Protection level U <sub>p</sub> (+/PE)	≤ 3.8 kV	PV system voltage, max. U <sub>cpv</sub>	1100 V
Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/PE	1100 V		

### DC load break switch

Switch disconnecter execution	switch in cover	Switching disconnecter capacity	DC-PV1, IEC 60947-3
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### Important note

Product information	<p>The SCIP number was assigned due to a lead content of more than 0.1 % of the net weight. Safe use instruction according to ECHA:          The identification of the hazardous substance is sufficient to allow safe use of the article throughout its life cycle, including the service life, disassembly and waste/recycling phase Fuses are not included</p>
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### Classifications

ETIM 8.0	EC003857	ETIM 9.0	EC003857
ETIM 10.0	EC003857	ECLASS 14.0	22-57-02-92
ECLASS 15.0	22-57-02-92		

### Tender specification sheets

Long specification	<p>Combiner box for inverters with 1 MPP tracker, suitable for protecting the DC side of a photovoltaic system according to EN 51543-32. MPP1:          6 inputs, connection via M25 cable gland with 3x7mm Ø cable entry. PUSH IN connection / 2.5 - 6mm<sup>2</sup> single-wire, multi-wire, with/without ferrule.          6 outputs, connection via M25 cable gland with 3x7mm Ø cable entry. PUSH IN connection / 2.5 - 6mm<sup>2</sup> single-wire, multi-wire, with/without ferrule.          Max. string voltage U<sub>oc</sub>: 1000V          1 class/type II arrester with signal contact          Fuse holders for inputs and outputs (fuses 10x38 to be ordered separately)          With load break switch for safe separation of the string lines          Connection of the signal contact via cable glands (8-12mmØ) max. conductor cross-section: 1.5mm<sup>2</sup></p>
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Connection of the functional earth via cable glands (8-12mmØ)  
Conductor cross-section: 16-25mm<sup>2</sup>  
Protection class: IP65  
All built into a glass fibre reinforced polyester housing. Dimensions HxWxD: 330x488x249 mm  
Approval according to low voltage switchgear and controlgear IEC 61439-1:2011 and EN 61439-2:2011

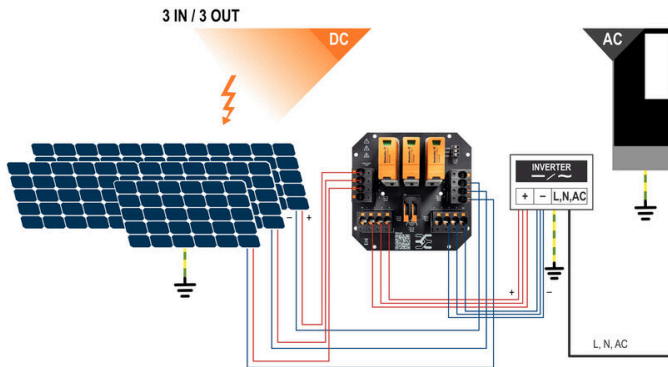
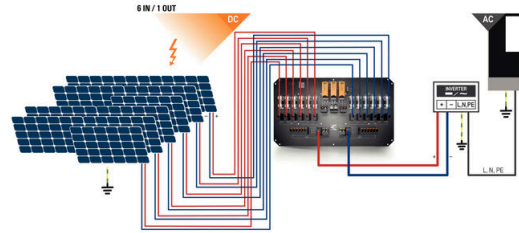
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Drawings

PCB design



PVN 1 M2 I6 S0 F3 V1 Q1 TX PX 10

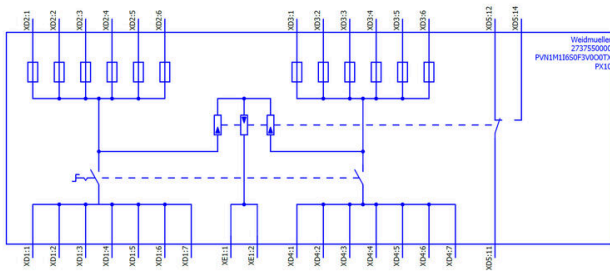
<p><b>Series</b>                  PVN = PV Next                  VPU = PV Protect</p> <p><b>Level</b>                  1 = DC trunk box (L1)</p> <p><b>Series</b>                  1 = 1 MPPT supported                  2 = 2 MPPT supported                  3 = 3 MPPT supported                  4 = 4 MPPT supported                  6 = 6 MPPT supported</p> <p><b>Inputs</b>                  1...12 inputs</p> <p><b>Switch</b>                  x = n/a                  0 = manual switch                  1 = remote switch</p>	<p><b>Voltage</b>                  10 = 1kV                  11 = 1,1kV                  15 = 1,5kV</p> <p><b>Powersupply</b>                  x = n/a</p> <p><b>Monitoring</b>                  x = n/a</p> <p><b>Output Type</b>                  0 = CG                  1 = WM4C                  2 = MC4-Evo 2</p> <p><b>SPD</b>                  2/0 = TYP II                  1 = TYP I+II                  X = No SPD</p> <p><b>Fuses</b>                  x = n/a                  3 = only fuse holders</p>
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## Accessories

### Cutting tools



Cutting tools for conductors up to 8 mm, 12 mm, 14 mm and 22 mm outside diameter. The special blade geometry allows pinch-free cutting of copper and aluminium conductors with minimum physical effort. The cutting tools (KT 8 to KT 22) also come with VDE and GS-tested protective insulation up to 1,000 V in accordance with EN/IEC 60900.

### General ordering data

Type	KT 14	Version	
Order No.	<a href="#">1157820000</a>	Version	Cutting tools, Cutting tool for one-hand operation
GTIN (EAN)	4032248945344		
Qty.	1 ST		

### Tools



- For flexible and solid conductors with special insulating materials
- High-quality stripping for industrial applications (complies with aircraft industry requirements)
- Specially shaped blades enable stripping of special types of insulation and conductor configurations
- Stripping length adjustable via end stop
- Very versatile thanks to interchangeable stripping units
- Stripping results reproduced accurately over and over again
- No damage to the conductor
- A long-lasting, reliable tool thanks to its sturdy design
- Integrated cutting function

### General ordering data

Type	MULTI-STRIPAX PV	Version	
Order No.	<a href="#">1190490000</a>	Version	Photovoltaics, Plug-in connector
GTIN (EAN)	4032248973262		
Qty.	1 ST		

### Crosshead screwdriver Phillips



VDE insulated crosshead screwdriver, for Phillips screws, SDIK PH DIN 7438, ISO 8764/2-PH, output to ISO 8764-PH, SoftFinish grip

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## Accessories

### General ordering data

Type	SDIK PH3 X 150	Version	
Order No.	<a href="#">2749910000</a>	Screwdriver, Blade width (B): 3 mm, 150 mm, Blade thickness (A): 3	
GTIN (EAN)	4050118897210		
Qty.	1 ST		

### Slotted screwdriver

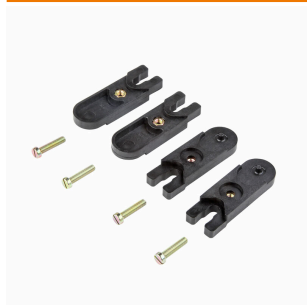


VDE insulated slot-head screwdriver, SDI DIN 7437, ISO 2380/2, drive output acc. to DIN 5264, ISO 2380/1. SoftFinish grip

### General ordering data

Type	SDIS 0.6X3.5X100	Version	
Order No.	<a href="#">2749810000</a>	Screwdriver, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm	
GTIN (EAN)	4050118897012		
Qty.	1 ST		
Type	SDIS 1.0X5.5X125	Version	
Order No.	<a href="#">2749850000</a>	Screwdriver, Blade width (B): 5.5 mm, Blade length: 125 mm, Blade thickness (A): 1 mm	
GTIN (EAN)	4050118897050		
Qty.	1 ST		

### External fixing lugs



The enclosures of the TBF series are made of extremely tough glass fibre-reinforced polyester. These enclosures are ideal for applications that call for low weight coupled with high shock resistance. The weather-resistant TBF enclosures are designed for a wide range of applications. Together with their comprehensive range of accessories, they provide universal solutions for accommodating built-in items such as regulators, measuring instruments, valves and other equipment.

Features:

- 9 sizes in 2 versions, with grey and transparent lids
- Cover with nylon screws
- Fixing holes outside the sealed area
- Thread for fitting to terminal rails and mounting plates
- Comprehensive accessories
- Weidmüller can manufacture and supply this enclosure to match customer specifications, fitted with all necessary terminals and cable glands.

### General ordering data

Type	MF TBF	Version	
Order No.	<a href="#">0360800000</a>	TBF (polyester empty enclosure), Mounting foot, Fixing lugs, Height: 72.5 mm, Width: 24 mm, Depth: 12 mm, Basic material: Polyamide, Polyamide 66, Deep black	
GTIN (EAN)	4008190108595		
Qty.	1 ST		

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## Accessories

### Sealing sets



### General ordering data

Type	SL SET PV NEXT	Version	
Order No.	<a href="#">2729230000</a>	Photovoltaics	
GTIN (EAN)	4050118804508		
Qty.	1 ST		

### UV-resistant cable ties



UV-resistant polyamide 6.6 ensures long durability of our special cable ties even with strong UV radiation. Ideal for continuous outdoor use.

### General ordering data

Type	CB-UVR 290/4,5 BK	Version	
Order No.	<a href="#">2659350000</a>	Cable ties, 4.5 x 290 mm, Polyamide 66, 220 N	
GTIN (EAN)	4050118682816		
Qty.	100 ST		

### 10x38 gPV



The gPV cylindrical fuse cartridges are designed to provide compact, safe and economical protection of photovoltaic modules (field protection) with voltages up to 1,500 DC. They provide protection against both overload and short circuit (gPV class according to the requirements of IEC60269-6 and UL248-19 standards). Made of a ceramic tube with high internal pressure and thermal shock resistance, allowing high switching capacity in a small space. The contacts are made of silver-plated copper and the fusible elements of pure silver to avoid ageing and thus keep the electrical characteristics invariable. They are available in the sizes 10x38 mm, 10x85 mm and 22x58 mm.

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### General ordering data

Type	FUSE 10X38 10A 1000 VDC...	Version
Order No.	<a href="#">2783230000</a>	Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 10 A
GTIN (EAN)	4064675059950	
Qty.	10 ST	
Type	FUSE 10X38 12A 1000 VDC...	Version
Order No.	<a href="#">2783240000</a>	Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 12 A
GTIN (EAN)	4064675059967	
Qty.	10 ST	
Type	FUSE 10X38 15A 1000 VDC...	Version
Order No.	<a href="#">2783250000</a>	Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 15 A
GTIN (EAN)	4064675059974	
Qty.	10 ST	
Type	FUSE 10X38 16A 1000 VDC...	Version
Order No.	<a href="#">2783260000</a>	Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 16 A
GTIN (EAN)	4064675059981	
Qty.	10 ST	
Type	FUSE 10X38 1A 1000 VDC ...	Version
Order No.	<a href="#">2783160000</a>	Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 1 A
GTIN (EAN)	4064675059684	
Qty.	10 ST	
Type	FUSE 10X38 20A 1000 VDC...	Version
Order No.	<a href="#">2783280000</a>	Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 20 A
GTIN (EAN)	4064675060000	
Qty.	10 ST	
Type	FUSE 10X38 2A 1000 VDC ...	Version
Order No.	<a href="#">2783170000</a>	Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 2 A
GTIN (EAN)	4064675059691	
Qty.	10 ST	
Type	FUSE 10X38 3A 1000 VDC ...	Version
Order No.	<a href="#">2783180000</a>	Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 3 A
GTIN (EAN)	4064675059905	
Qty.	10 ST	
Type	FUSE 10X38 4A 1000 VDC ...	Version
Order No.	<a href="#">2783190000</a>	Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 4 A
GTIN (EAN)	4064675059912	
Qty.	10 ST	
Type	FUSE 10X38 5A 1000 VDC ...	Version
Order No.	<a href="#">2783200000</a>	Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 5 A
GTIN (EAN)	4064675059929	
Qty.	10 ST	
Type	FUSE 10X38 6A 1000 VDC ...	Version
Order No.	<a href="#">2783210000</a>	Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 6 A
GTIN (EAN)	4064675059936	
Qty.	10 ST	
Type	FUSE 10X38 8A 1000 VDC ...	Version
Order No.	<a href="#">2783220000</a>	Photovoltaics, Cartridge fuse, 1000 V, 10x38, gPV, 8 A
GTIN (EAN)	4064675059943	
Qty.	10 ST	

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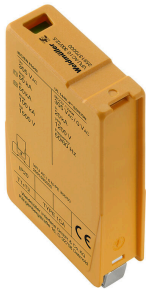
### PV Weather protection



#### General ordering data

Type	PV SUN COVER 37/30/18	Version	
Order No.	<a href="#">8000087024</a>	Photovoltaics	
GTIN (EAN)	4064675845171		
Qty.	1 ST		

### Spare Arrester



#### General ordering data

Type	VPU PV II O 1000	Version	
Order No.	<a href="#">2530660000</a>	Surge voltage arrester, Low voltage, Accessories, Spare arrester	
GTIN (EAN)	4050118540871		
Qty.	9 ST		