

**PVN DC 2I 10 2MPP RD CG 11**

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

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



For safe remote shutdown Rooftop photovoltaic systems can require a disconnection device at the point where the cables enter into the building, that is connected to the power grid in the building. This allows the fire brigade to carry out their work in an emergency without being unnecessarily endangered. When the power supply is restored, the PV Next Fireman Switch automatically reconnects the PV strings.

**General ordering data**

Version	Photovoltaics, Combiner Box, Fireman's switch, PV Next, 2 MPP's, 2 Inputs / 1 Output per MPP, Remote disconnector, Cable gland, 1100 V
Order No.	<a href="#">2778870000</a>
Type	PVN DC 2I 10 2MPP RD CG 11
GTIN (EAN)	4064675047629
Qty.	1 items

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**Technical data****Approvals**

Approvals



ROHS Conform

**Dimensions and weights**

Depth	132 mm	Depth (inches)	5.1968 inch
Height	346 mm	Height (inches)	13.622 inch
Width	200 mm	Width (inches)	7.874 inch
Net weight	2586 g		

**Temperatures**

Ambient temperature	-20 °C...50 °C	Humidity	5...95 %, no condensation
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**Environmental Product Compliance**

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	7a, 7cl
REACH SVHC	Lead 7439-92-1
SCIP	bdab5698-6a20-4370-8e28-8810d882d01a

**Included in delivery**

Included accessories	Article	Mounting foot
	Quantity	4
	Article	Sealing plug
	Quantity	5

**Approvals and norms**

Approvals	EN 61439-2, IEC 61439-2, OVE-Directive R 11-1:2022-05-01
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**Guarantee**

Time interval	5 years
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**Electrical characteristics**

Rated DC voltage	1100 V	
Rated short-term current resistance	Rated current	62.5 A
Current per Maximum Power Point, max. 50 A		
Rated DC current per connection	Current per string, max.	44.00 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 foots

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## Technical data

Protection class	II	Connection type string	Internal terminal (with cable gland feed-through)
<b>General data</b>			
Protection degree	IP65	Installation location	Protected outdoor area (>1 km from sea)
<b>Inputs</b>			
Amount of maximum power points (MPP) 2			
Number of conduit inlets	4		
DC Input + & -	Wire connection	Type of connection	PUSH IN
		Compatible cable crosssection	EN 50618:2015
		Wire cross-section, min.	2.5 mm <sup>2</sup>
		Wire cross-section, max.	16 mm <sup>2</sup>
Fuse type	Neither fuse cartridge nor holder		
Fuses	No		
Max. number of DC inputs	per Maximum Power Point 2 inputs connected in parallel		
Number of string inputs per MPP	≤ 2		
Number of inputs	4		
<b>Outputs</b>			
Max. number of DC outputs per Maximum Power Point 1 output			
DC Output + & -	Wire connection	Type of connection	PUSH IN
		Compatible cable crosssection	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>
<b>Remote disconnector</b>			
Automatic reclosing after voltage drop	Yes		
Number of operating cycles	10000		
Control voltage	100 V AC - 250 V AC 50/60Hz		
Remote disconnector auxiliary contact	Cable entry	Number of cable entries	1
	Wire connection	Type of connection	Screw terminal connectors
		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>
Remote disconnector control contact	Cable entry	Number of cable entries	1
	Wire connection	Type of connection	Screw terminal connectors
		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>
Type of power circuit disconnection	Under voltage tripping		
Turn-off time	1.5 s		

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## Technical data

Current consumption of switch	Type of switch	Fireman switch
	Current consumption, note	The Peak current only arises for a short time when the capacitors of the fireman switch were previously completely discharged.
	Current consumption peak	300 mA
	Current consumption continuous	30 mA
Number of breaking operation cycles at rated current	300	
Switch disconnector execution	Remote disconnector inside enclosure	
Switching disconnector capacity	IEC 60947-3, DC-PV1	

## 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. 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
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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	Automatic ON and OFF switching fireman switch for the connection to 2 MPP tracker in the inverter. Suitable for remote disconnection of the DC side by the fire department. Max. string voltage Uoc: 1100V MPP1: 2 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. 1 output, 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. MPP2:
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**Technical data**

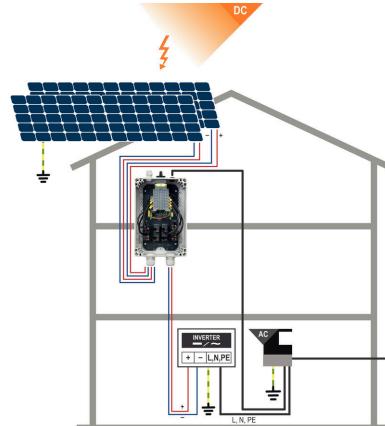
identical to MPP1  
DC fireman switch:  
Switching off by  
undervoltage tripping.  
Automatic reconnection  
after the control voltage  
(230 V AC) is applied  
again.  
With signal contact.  
Connection of the  
fireman switch control  
line 230 VAC via cable  
glands (8-12mmØ) max.  
conductor cross-section:  
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 into a glass  
fibre reinforced  
polyester housing.  
Dimensions HxWxD:  
364x200x132mm.  
Approval according to low  
voltage switchgear IEC  
61439-1:2011 and EN  
61439-2:2011

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## Drawings

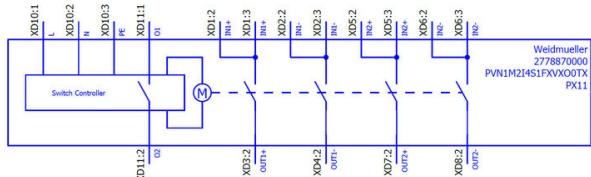


PVN 1 M2 I6 S0 F3 V1 O1 TX PX 10	
<b>Series</b> PVN = PV Next VPU = PV Protect	<b>Voltage</b> 10 = 1kV 11 = 1.1kV 15 = 1.5kV
<b>Level</b> 1 = DC trunk box (L1)	<b>Powersupply</b> x = n/a
<b>Series</b> 1 = 1 MPPT supported 2 = 2 MPPT supported 3 = 3 MPPT supported 4 = 4 MPPT supported 6 = 6 MPPT supported	<b>Monitoring</b> x = n/a
<b>Inputs</b> 1...12 inputs	<b>Output Type</b> 0 = CG 1 = WM4C 2 = MC4-Evo 2
<b>Switch</b> 0 = n/a 1 = manual switch 1 = remote switch	<b>SPD</b> 2/0 = TYP II 1 = TYP I+II X = No SPD
	<b>Fuses</b> x = n/a 3 = only fuse holders

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**Drawings**

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## Accessories

## PV Sun Covers



## General ordering data

Type	PV SUNCOVER 20/30/13	Version
Order No.	<a href="#">8000143245</a>	Photovoltaics, Sun cover
GTIN (EAN)	4099987111843	
Qty.	1 ST	

## 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>	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

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## Accessories

## General ordering data

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

## Crosshead screwdriver Phillips



Crosshead screwdriver, Phillips, SDK PH DIN 5262, ISO 8764/2-PH, output to ISO 8764-PH, ChromTop tip, SoftFinish grip

## General ordering data

Type	SDK PH3	Version
Order No.	<a href="#">9008500000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056491	
Qty.	1 ST	

## Slotted screwdriver



Slotted screwdriver with rounded blade SD DIN 5265, ISO 2380/2, output to DIN 5264, ISO 2380/1. ChromTop tip, SoftFinish grip

## General ordering data

Type	SDS 0.6X3.5X100	Version
Order No.	<a href="#">9008330000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056286	
Qty.	1 ST	
Type	SDS 1.0X5.5X150	Version
Order No.	<a href="#">9008350000</a>	Screwdriver, Screwdriver
GTIN (EAN)	4032248056316	
Qty.	1 ST	

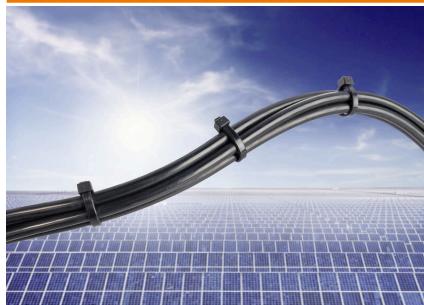
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## Accessories

## 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	

## Y-Connector Cables



The Y cable is used for the parallel connection of several strings in a PV system, e.g. for splitting a line in front of an inverter.  
The cables are available in different connection variants.

## General ordering data

Type	PVHYM-M-XXXX6W+11	Version
Order No.	<a href="#">2877850000</a>	Photovoltaics, Y-Connector Cable, 1x WM4 C Female, 2x MC4 Male,
GTIN (EAN)	4064675666417	6mm <sup>2</sup> , 1100 V
Qty.	1 ST	
Type	PVHYM+M+XXXX6W-11	Version
Order No.	<a href="#">2877860000</a>	Photovoltaics, Y-Connector Cable, 1x WM4 C Male, 2x MC4 Female,
GTIN (EAN)	4064675666424	6mm <sup>2</sup> , 1100 V
Qty.	1 ST	

## Emergency stop button



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## Accessories

## General ordering data

Type	AC SB E 5A 1POL PO 06KV	Version
Order No.	<a href="#">3077660000</a>	Photovoltaics, Emergency stop button, 1 pole, 600 V AC, 5 A,
GTIN (EAN)	4099987081887	Complete enclosure
Qty.	1 ST	

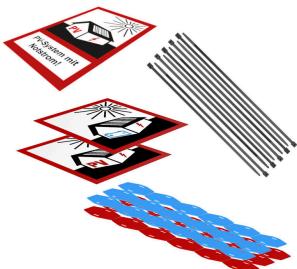
## Sealing sets



## General ordering data

Type	BLINDPLUG SET5 7X28MM	Version
Order No.	<a href="#">3077670000</a>	Photovoltaics, Blind plug
GTIN (EAN)	4099987081894	
Qty.	1 ST	
Type	BLINDPLUG SET50 7X28MM	Version
Order No.	<a href="#">3077650000</a>	Photovoltaics, Blind plug, Accessories, Blind plug, 50 pieces
GTIN (EAN)	4099987081870	
Qty.	1 ST	

## PV marking sets



## General ordering data

Type	PV MARKER 1-3 MPP	Version
Order No.	<a href="#">8000149520</a>	Photovoltaics, Device markers, Accessories, Conductor and cable
GTIN (EAN)	4099987229197	markers, Cable ties, Marking set, Warning label, Cable marker, Self-adhesive
Qty.	1 ST	