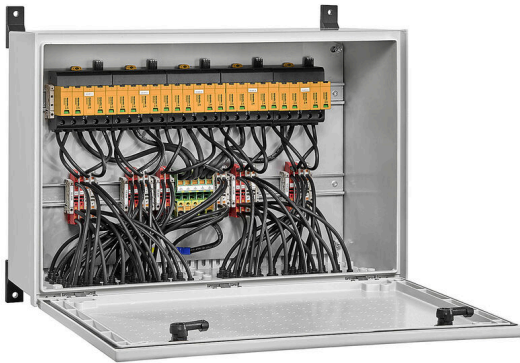


## PVC DC 2I 10 10MPP SPD1R EVO 11

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

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, PV Next, 1100 V, 10 MPP's, 2 Inputs / 1 Output per MPP, Surge protection I / II, MC4-Evo 2
Order No.	<a href="#">8000106274</a>
Type	PVC DC 2I 10 10MPP SPD1R EVO 11
GTIN (EAN)	4099986665354
Qty.	1 items

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**Technical data**

**Approvals**

Approvals



ROHS Conform

**Dimensions and weights**

Depth	248.9 mm	Depth (inches)	9.7992 inch
Height	469.5 mm	Height (inches)	18.4842 inch
Width	600 mm	Width (inches)	23.622 inch
Net weight	17500 g		

**Temperatures**

Ambient temperature -20 °C...50 °C Humidity 5 - 90 %, no condensation

**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	Dustcap VSSO
	Quantity	20
	Article	Sealing plug
	Quantity	3

**Approvals and norms**

Approvals EN 61439-2, IEC 61439-2

**Guarantee**

Time interval 5 years

**Electrical characteristics**

Rated DC voltage	1100 V
Rated short-term current resistance	Rated current 51.25 A
Current per Maximum Power Point, max.	41 A
Rated DC current per connection	Current per string, max. 41.00 A

**Enclosure**

Insulating material	Polyester glass-fibre reinforced, Polycarbonate	Type of mounting	4 screws, Fixing lugs
Impact resistance	IK10 in accordance with IEC 62262	Enclosure attachment	Via mounting feet
Protection class	II	Connection type string	Plug MC4-Evo 2

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**Technical data**

**General data**

Standards	EN 61643-31	Protection degree	IP65
Installation location	Protected outdoor area (>1 km from sea)		

**Inputs**

Amount of maximum power points (MPP)	10		
Functional earth connector	Cable entry	Number of cable entries	2
	Wire connection	Type of connection	PUSH IN with actuator
		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	20		
DC Input + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Compatible cable cross-section	TÜV 2 Pfg1169/08.07
		Wire cross-section, min.	2.5 mm <sup>2</sup>
		Wire cross-section, max.	16 mm <sup>2</sup>
	Cable entry	Number of cable entries	20
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		
Surge protection auxiliary contact	Cable entry	Number of cable entries	1
	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	20		

**Outputs**

Max. number of DC outputs	per Maximum Power Point 1 output		
DC Output + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Compatible cable cross-section	TÜV 2 Pfg1169/08.07
		Wire cross-section, min.	2.5 mm <sup>2</sup>
		Wire cross-section, max.	16 mm <sup>2</sup>

**Surge protection DC side**

Standards	EN 61643-31	Lightning test current Iimp (10/350 μs)	5 kA
Protection level Up (+/-, -/PE, +/-PE)	≤ 3.8 kV	Standby power consumption PC	<0.2 W
Short-circuit current ISCPV	11000 A	Total discharge current Itotal (8/20 μs)	50 kA
Discharge current In (8/20 μs)	20 kA	Requirements class	Type I/II

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### Technical data

Total discharge current I <sub>total</sub> (10/350µs)	10 kA	Protection level Up (-/PE)	≤ 3.8 kV
Protection level Up (+/-)	≤ 3.8 kV	Protection level Up (+/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

Voltage type	DC	Switch disconnector execution	no switch
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### Important note

**Product information**  
 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

### 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**  
 Combiner box for inverters with 10 MPP tracker, suitable for protecting the DC side of a photovoltaic system according to EN 51543-32. MPP1: 2 inputs, connection via MC4-Evo 2 connector, compatible with cable type TÜV 2 Pfg 1 169/08.07 / EN 50618:2063  
 1 output, connection via MC4-Evo 2 connector, compatible with cable type TÜV 2 Pfg 1 169/08.07 / EN 50618:2063  
 MPP2 to 10: identical to MPP1 Max. string voltage U<sub>oc</sub>: 1100V  
 1 class/type I + II combined arrester with signal contact  
 Connection of the signal contact via cable glands (8-12mmØ) max. conductor cross-section: 1.5mm<sup>2</sup>  
 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: 469.5x600x248.9 mm  
 Approval according to low voltage switchgear

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**Technical data**

and controlgear IEC  
61439-1:2011 and EN  
61439-2:2011

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**Drawings**



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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>	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>	Photovoltaics, Plug-in connector	
GTIN (EAN)	4032248973262		
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

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**Accessories**

**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	

**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, 6mm², 1100 V
GTIN (EAN)	4064675666417	
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, 6mm², 1100 V
GTIN (EAN)	4064675666424	
Qty.	1 ST	

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## Accessories

### Sealing sets

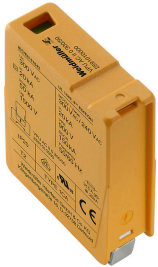


### General ordering data

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		

### Spare Arrester



### General ordering data

Type	VPU PV I+II O 1000	Version	
Order No.	<a href="#">2530600000</a>	Surge voltage arrester, Low voltage, Accessories, Surge protection I /	
GTIN (EAN)	4050118540819	II, Spare arrester	
Qty.	9 ST		

Type	VPU PV I+II OM 1000	Version	
Order No.	<a href="#">2534300000</a>	Surge voltage arrester, Low voltage, Surge protection I / II, Spare	
GTIN (EAN)	4050118545906	arrester	
Qty.	9 ST		