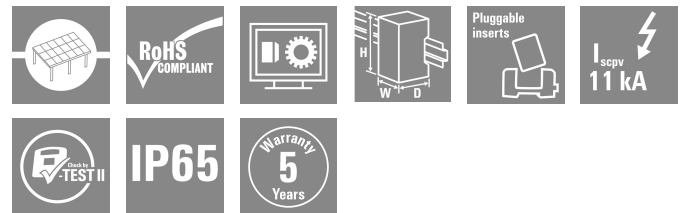


## PVN DC 3IF 30 2MPP SW SPD1R WM4 10

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

www.weidmueller.com

### Product image



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, 1000 V, 2 MPP's, 3 Inputs / 3 Outputs per MPP, With fuse holder, Surge protection I / II, Switch disconnecter, WM4C
Order No.	<a href="#">268310000</a>
Type	PVN DC 3IF 30 2MPP SW SPD1R WM4 10
GTIN (EAN)	405011869995 1
Qty.	1 items

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**Technical data**

**Approvals**

Approvals



ROHS Conform

**Dimensions and weights**

Depth	172 mm	Depth (inches)	6.7716 inch
Depth with add-on components	250 mm	Height	340 mm
Height (inches)	13.3858 inch	Width	600 mm
Width (inches)	23.622 inch	Net weight	6981 g

**Temperatures**

Ambient temperature -40 °C...45 °C Humidity 5 - 90 %, no condensation

**Environmental Product Compliance**

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

**DC string monitoring**

Monitoring function Non monitored

**Included in delivery**

Included accessories	Article	Mounting foot
	Quantity	4
	Article	Dustcap VSSO
	Quantity	8
	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	1000 V
Rated short-term current resistance	Rated current 56.25 A
Current per Maximum Power Point, max.	45 A
Rated DC current per connection	Current per string, max. 35.00 A

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**Technical data**

**Enclosure**

Cover	with cover, removeable	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	Protection class	II
Connection type string	Plug WM4C		

**General data**

Standards	EN 61643-31, IEC 61439-2 ed 3.0	Protection degree	IP65
Installation location	Protected outdoor area (Land and Sea)		

**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)	2		
Functional earth connector	Cable entry	Number of cable entries	2
		Cable diameter, min.	5 mm
		Cable diameter, max.	10 mm
		Cable gland	M 16
	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	0		
DC Input + & -	Wire connection	Type of connection	WM4C plug-in connector
		Compatible cable crossection	EN 50618:2015
		Wire cross-section, min.	2.5 mm <sup>2</sup>
		Wire cross-section, max.	6 mm <sup>2</sup>
Fuse type	Empty fuse holder		
Fuses	Yes		
Max. number of DC inputs	per Maximum Power Point 3 inputs connected in parallel		
Number of string inputs per MPP	≤ 3		
Surge protection auxiliary contact	Cable entry	Number of cable entries	2
		Cable diameter, min.	5 mm
		Cable diameter, max.	10 mm
		Cable gland	M 16
	Wire connection	Type of connection	PUSH IN 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		

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**Technical data**

**Outputs**

Max. number of DC outputs	per Maximum Power Point 3 outputs connected in parallel		
DC Output + & -	Wire connection	Type of connection	WM4C plug-in connector
		Compatible cable crosssection	TÜV 2 Pfg1169/08.07
		Wire cross-section, min.	4 mm <sup>2</sup>
		Wire cross-section, max.	6 mm <sup>2</sup>

**Surge protection DC side**

Standards	EN 61643-31, IEC 61439-2 ed 3.0	Lightning test current Iimp (10/350 µs)	6.25 kA
Discharge current, max. (8/20 µs)	40 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 ( 8/20µs)	50 kA	Discharge current In (8/20 µs)	20 kA
Requirements class	Type I/II	Total discharge current Itotal (10/350µs)	12.5 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. Ucpv	1000 V
Surge protection DC side	1000 V type I + II with remote contact	Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/-PE	1100 V

**DC load break switch**

Voltage type	DC	Rated impulse withstand voltage	8 kV
Nominal voltage	1000 V	Nominal current	45 A
Number of contacts as NC contact	0	Switch disconnecter execution	switch in cover
Switching disconnecter capacity	DC-PV1, IEC 60947-3	Motor drive available	No
Rated short-circuit making current	1.4 A	Motor drive supply voltage (DC)	1000 V
Number of breaking operation cycles at rated current	300	Number of operating cycles	10000
Number of contacts as NO contact	4		

**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 Fuses are not included

**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 2 MPP tracker, suitable for protecting the DC side of a photovoltaic system according to EN 51543-32. MPP1:

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**Technical data**

3 inputs, connection  
via WM4 C connector,  
compatible with cable type  
TÜV 2 Pfg 1 169/08.07 /  
EN 50618:2063

3 outputs, connection  
via WM4 C connector,  
compatible with cable type  
TÜV 2 Pfg 1 169/08.07 /  
EN 50618:2063

MPP2:

identical to MPP1

Max. string voltage Uoc:  
1000V

1 class/type I + II  
combined 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>

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: 334x558x249  
mm

Approval according to  
low voltage switchgear  
and controlgear IEC  
61439-1:2011 and EN  
61439-2:2011

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Drawings

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PCB design



