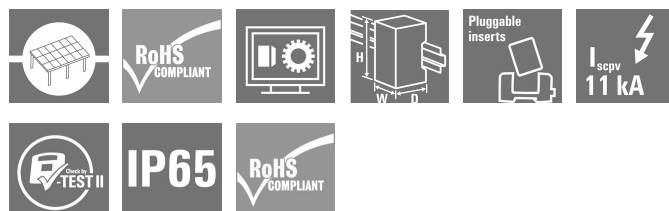


PVN DC 3IF 3O 1MPP SPD1R EVO 10

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 51643-32. 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, 1 MPP, 3 Inputs / 3 Outputs per MPP, Surge protection I / II, With fuse holder, MC4-Evo 2
Order No.	2925830000
Type	PVN DC 3IF 3O 1MPP SPD1R EVO 10
GTIN (EAN)	4099986642058
Qty.	1 pc(s).

Creation date July 11, 2025 9:17:45 AM CEST

Catalogue status 11.07.2025 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Depth	132 mm	Depth (inches)	5.197 inch
Depth with add-on components	132 mm	Height	340 mm
Height (inches)	13.386 inch	Width	300 mm
Width (inches)	11.811 inch	Net weight	9,999 g

Temperatures

Ambient temperature	-40 °C...50 °C	Humidity	5 to 95 % (non-condensing)
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DC string monitoring

Monitoring function	Non monitored
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Guarantee

Time interval	5 years
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Electrical characteristics

Current per Maximum Power Point, max.45 A	
Rated DC voltage	1,000 V
Rated short-term current resistance	Rated current 56.25 A

Enclosure

Connection type string	Plug MC4-Evo 2	Cover	removeable
Enclosure attachment	Via mounting feet	Impact resistance	IK08 in accordance with IEC 62208, IK10 in accordance with IEC 62262
Insulating material	Polyester glass-fibre reinforced, Polycarbonate, Polycarbonate	Protection class	II
Type of mounting	Wall mounting		

General data

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

Inputs

Amount of maximum power points (MPP)	1		
Cartridge fuse	10 x 38 mm		
DC Input + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Wire cross-section, min.	4 mm ²
		Wire cross-section, max.	6 mm ²

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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	PUSH IN with actuator	
		Flexible, max. H05(07) V-K	25 mm ²	
	w. wire end ferrule, DIN 46228 pt 1, max.	16 mm ²		
Fuse type	Empty fuse holder			
Fuse-link standard	gPV (EN 60269-6)			
Fused poles of string	+/-			
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	1	
		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 ²	
	w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²		
Number of inputs	3			

Outputs

DC Output + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Wire cross-section, min.	4 mm ²
		Wire cross-section, max.	6 mm ²
Max. number of DC outputs	per Maximum Power Point 3 outputs connected in parallel		

Surge protection DC side

Discharge current I_n (8/20 μs)	20 kA	Discharge current, max. (8/20 μs)	40 kA
Lightning test current I_{imp} (10/350 μs)	6.25 kA	Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/-PE	1,100 V
PV system voltage, max. U_{cpv}	1,000 V	Protection level U_p (+/-, -/PE, +/-PE)	≤ 3.8 kV
Protection level U_p (+/-)	≤ 3.8 kV	Protection level U_p (+/PE)	≤ 3.8 kV
Protection level U_p (-/PE)	≤ 3.8 kV	Requirements class	Type I/II
Short-circuit current I_{SCPV}	11,000 A	Standards	IEC 61439-2 ed 3.0, IEC 61643-31
Surge protection DC side	1000 V type I + II	Total discharge current I_{total} (8/20 μs)	50 kA
Total discharge current I_{total} (10/350 μs)	6.25 kA		

DC load break switch

Switch disconnector execution	no switch	Voltage type	DC
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Technical data

Classifications

ETIM 6.0	EC002928	ETIM 7.0	EC002928
ETIM 8.0	EC003857	ETIM 9.0	EC003857
ETIM 10.0	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
ECLASS 13.0	22-57-02-92	ECLASS 14.0	22-57-02-92
ECLASS 15.0	22-57-02-92		

Approvals

Approvals



Approvals MAMID https://mdcop.weidmueller.com/mediadelivery/rendition/900_319222/-T1z1mm-S800/

ROHS Conform

Article	Mounting foot
Quantity	4
Article	Sealing plug
Quantity	1

Downloads

Engineering Data	CAD data – STEP
Technical Documentation	PVN DC 3IF 30 1MPP SPD1R EVO 10
Catalogues	Catalogues in PDF-format

Data sheet

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Drawings

