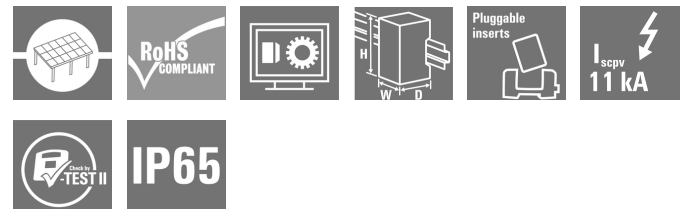


PVC DC 2I 10 10MPP SPD1R EVO 11

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 EN 51543-32. 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, 1100 V, 10 MPP's, 2 Inputs / 1 Output per MPP, Surge protection I / II, MC4-Evo 2
Order No.	8000106274
Type	PVC DC 2I 10 10MPP SPD1R EVO 11
GTIN (EAN)	4099986665354
Qty.	1 pc(s).
Replacement parts	2530600000 2534300000

Creation date July 27, 2023 8:45:28 AM CEST

Catalogue status 24.07.2023 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

Depth	248.9 mm	Depth (inches)	9.799 inch
Height	469.5 mm	Height (inches)	18.484 inch
Width	600 mm	Width (inches)	23.622 inch
Net weight	21,000 g		

Temperatures

Ambient temperature	-25 °C...+50 °C	Humidity	5 - 90 %, no condensation
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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

Current per Maximum Power Point, max. 32 A

Rated DC current per connection	Current per string, max.	32 A
Rated short-term current resistance	Rated current	40 A
Rated DC voltage	1,100 V	

Enclosure

Connection type String	Plug MC4-Evo 2	Enclosure attachment	Via mounting feet
Insulating material	Polyester glass-fibre reinforced, Polycarbonate	Switch disconnector execution	no switch
Type of mounting	4 screws		

General data

Installation location	Protected outdoor area (>1 km from sea)	Protection degree	IP65
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Inputs

Amount of Maximum Power Points	10 MPP		
DC Input + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Wire cross-section, min.	2.5 mm ²
		Wire cross-section, max.	6 mm ²
	Cable entry	Number of cable entries	4
Functional earth connector	Cable entry	Number of cable entries	1
		Wire connection	Type of connection
		Flexible, max. H05(07) V-K	25 mm ²
		w. wire end ferrule, DIN 46228 pt 1, max.	16 mm ²
Fuse type	Neither fuse cartridge nor holder		
Max. number of DC inputs	per Maximum Power Point 2 inputs connected in parallel		

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Technical data

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 ²
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²

Outputs

DC Output + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Compatible cable cross-section	TÜV 2 Pfg 1169/08.07, EN 50618:2015
		Wire cross-section, min.	2.5 mm ²
		Wire cross-section, max.	6 mm ²

Max. number of DC outputs per Maximum Power Point 1 output

Surge protection DC side

Discharge current I_n (8/20 μ s)	20 kA	Discharge current, max. (8/20 μ s)	40 kA
Lightning test current I_{imp} (10/350 μ s)	6.25 kA	Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/-PE	1,100 V
PV system voltage, max. U_{cpv}	1,100 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_{SCP}	11,000 A	Standby power consumption P_C	< 0.2 W
Total discharge current I_{total} (8/20 μ s)	50 kA	Total discharge current I_{total} (10/350 μ s)	12.5 kA

Classifications

ETIM 6.0	EC002928	ETIM 7.0	EC002928
ETIM 8.0	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

Downloads

Approval/Certificate/Document of Conformity	PV Next Classic Declaration of Conformity
White paper	Fact Sheet DE PV CB Wie man Gebäude gegen Blitzeinschläge schützt
	Fact Sheet DE PV Wie man die Lebensdauer eines GAK verlängert
	Fact Sheet DE PV CB Wann Sicherungen zu installieren sind
	Fact Sheet DE CB PV NEXT
	Fact Sheet EN PV CB When DC fuses are mandatory to install
	Fact Sheet EN CB PV NEXT
	Fact Sheet EN PV How to protect buildings against lightning strikes
	Fact Sheet EN PV How to extend the life time of a Combiner Box
	06_PV-Fact-Sheet-CB-PV-Strings-kombinieren-DE.pdf
	05_PV-Fact-Sheet-CB-Richtig-verbinden_DE.pdf
06_PV-Fact-Sheet-CB-Combining-PV-strings_EN.pdf	
05_PV-Fact-Sheet-CB-Connection_EN.pdf	
Catalogues	Catalogues in PDF-format

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Drawings

