

PVC DC 2I 10 12MPP SPD1R EVO 11

Weidmüller Interfaces GmbH & Co. KG

Postfach 3030

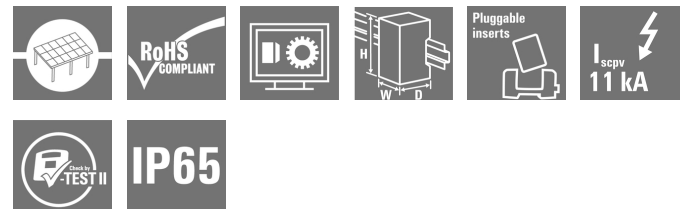
32760 Detmold

Tel. +49 5231 14-0

Fax. +49 5231 14-2083

info@weidmueller.com

www.weidmueller.com



PV Next: PV-Next, PV generator junction box for combination of 1-6 strings (input and output side) and connection to the inverter. Intelligent innovative design individual for every customer application. Advanced overvoltage protection, optional fuses and switch-disconnectors for optimum operation and safety for the system. In addition, all PV generator junction boxes comply with IEC/EN 61439-2 for maximum reliability of each component.

General ordering data

Version	Photovoltaics, Combiner Box, 1100 V, 12 MPP's, 2 Inputs / 1 Output per MPP, Surge protection I / II, MC4-Evo 2
Order No.	8000107558
Type	PVC DC 2I 10 12MPP SPD1R EVO 11
GTIN (EAN)	4099986665361
Qty.	1 pc(s).
Replacement parts	2530600000 2534300000

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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	19,104.432 g		

Temperatures

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

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
Standards	EN 61439-2, IEC 61439-2		

Inputs

Amount of Maximum Power Points	12 MPP			
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	
	Cable entry	Number of cable entries	4	
Functional earth connector	Cable entry	Number of cable entries	1	
		Wire connection	Type of connection	PUSH IN with actuator
		Flexible, max. H05(07) 25 mm ² V-K		
		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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Catalogue status 17.03.2023 / We reserve the right to make technical changes.

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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.	4 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 UCPV mode +/-, -/PE, +/PE	1,100 V DC
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_{SCPV}	11,000 A	Standards	EN 61439-2, IEC 61439-2
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

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

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Drawings

