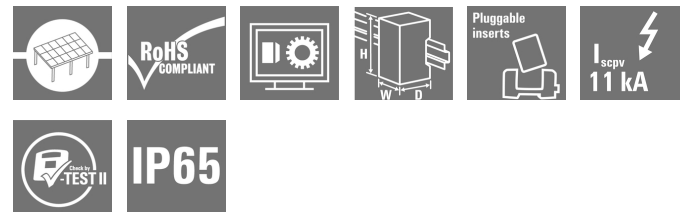


PVC DC 2I 10 6MPP SPD1R EVO 11

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

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, 6 MPP's, 2 Inputs / 1 Output per MPP, Surge protection I / II, MC4-Evo 2
Order No.	8000109092
Type	PVC DC 2I 10 6MPP SPD1R EVO 11
GTIN (EAN)	4099986665323
Qty.	1 pc(s).
Replacement parts	2530600000 2534300000

Creation date May 1, 2023 2:05:58 PM CEST

Catalogue status 14.04.2023 / 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
Height	336 mm	Height (inches)	13.228 inch
Width	400 mm	Width (inches)	15.748 inch
Net weight	5,794.12 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. 34 A

Rated DC current per connection	Current per string, max.	34 A
Rated short-term current resistance	Rated current	37.5 A
Rated DC voltage	1,100 V DC	

Enclosure

Connection type String	Plug MC4-Evo 2	Enclosure attachment	Via mounting feet
Insulating material	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	6 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.	10 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) V-K	25 mm ²
		w. wire end ferrule, DIN 46228 pt 1, max.	16 mm ²
Fuse type	Neither fuse cartridge nor holder		

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Technical data

Max. number of DC inputs	per Maximum Power Point 2 inputs connected in parallel		
Surge protection auxiliary contact	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	
	Cable entry	Number of cable entries	1

Outputs

DC Output + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Compatible cable crossection	TÜV 2 Pfg 1169/08.07, EN 50618:2015
		Wire cross-section, min.	2.5 mm ²
		Wire cross-section, max.	10 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_{SCP}	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	Fact Sheet DE PV CB Wie man Gebäude gegen Blitzschläge 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

Data sheet

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Drawings

