Data sheet

PVC DC 2I 2O 4MPP 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 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

Order No.	8000150666
Type	PVC DC 2I 2O 4MPP SPD1R EVO 11
GTIN (EAN)	4099987245579
Qty.	1 items

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Technical data

Approvals

Approvals	CE
ROHS	Conform

Dimensions and weights

Depth	132 mm	Depth (inches)	5.1968 inch
Height	236 mm	Height (inches)	9.2913 inch
Width	400 mm	Width (inches)	15.748 inch
Net weight	5370 g		

Temperatures

Humidity	5 - 90 %, no condensation

Electrical characteristics

Rated DC voltage	1100 V	Current per maximum power point, max.	45 A

Enclosure

Insulating material	Polyester glass-fibre reinforced, Polycarbonate	Type of mounting	Wall mounting, 4 screws
Impact resistance	IK10 in accordance with IEC 62262, IK08 in accordance with IEC 62208	Enclosure attachment	Via mounting foots
Protection class	II	Connection type string	Plug MC4-Evo 2

General data

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

Inputs

Amount of maximum power points (MPP)	4	Number of conduit inlets	8
Fuse type	Neither fuse cartridge nor holder	Fuses	No
Max. number of DC inputs	per Maximum Power Point 2 inputs connected in parallel	Number of string inputs per MPP	≤ 2
Number of inputs	2		

Outputs

Max. number of DC outputs	per Maximum Power Point 2 outputs connected in parallel

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Surge protection DC side

Standards	EN 61439-2, EN 61643-31	Lightning test current limp (10/350 µs)	6.25 kA
Discharge current (8 / 20 µs), max.	40 kA	Protection level Up (+/- , -/PE , +/PE)	≤ 3.8 kV
Standby power consumption PC	< 0.2 W	Short-circuit curent ISCPV	11000 A
Total discharge current (Itotal) (8 / 20 µs)	50 kA	Discharge current In (8/20 µs)	20 kA
Requirements class	Type I/II	Total discharge current (Itotal) (10 / 350 µs)	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 (Ucpv), max.	1100 V
Maximum continuous operating voltage, DC UCPV mode (+ / -), (- / PE), (+ / PE)	1100 V		

DC load break switch

Voltage type	DC	Switch disconnector execution	no switch

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		

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Drawings

