Data sheet

PVN DC 2I 1O 2MPP RD EVO 11

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
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Germany

www.weidmueller.com

For safe remote shutdown Rooftop photovoltaic systems can require a disconnection device at the point where the cables enter into the building, that is connected to the power grid in the building. This allows the fire brigade to carry out their work in an emergency without being unnecessarily endangered. When the power supply is restored, the PV Next Fireman Switch automatically reconnects the PV strings.

General ordering data

Version	Photovoltaics, Combiner Box, Fireman's switch, PV Next, 2 MPP's, 2 Inputs / 1 Output per MPP, Remote disconnector, MC4-Evo 2, 1100 V
Order No.	2888530000
Type	PVN DC 2I 1O 2MPP RD EVO 11
GTIN (EAN)	4064675875574
Qty.	1 items

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Technical data

Approvals

Approvals	CE
ROHS	Conform

Dimensions and weights

Depth	135 mm	Depth (inches)	5.3149 inch
Height	370 mm	Height (inches)	14.5669 inch
Width	200 mm	Width (inches)	7.874 inch
Net weight	2538 g		

Temperatures

Ambient temperature	-20 °C...50 °C	Humidity	5...95 %, no condensation

Environmental Product Compliance

RoHS Compliance Status	Compliant with exemption
RoHS Exemption (if applicable/known)	6c, 7a, 7cI
REACH SVHC	Lead 7439-92-1
SCIP	bdab5698-6a20-4370-8e28-8810d882d01a

Included in delivery

Included accessories	Article	Mounting foot
	Quantity	4
	Article	Dustcap VSSO
	Quantity	4
	Article	Sealing plug
	Quantity	1

Approvals and norms

Approvals	EN 61439-2, IEC 61439-2, OVE-Directive R 11-1:2022-05-01

Guarantee

Time interval	5 years

Electrical characteristics

Rated DC voltage	1100 V	
Rated short-term current resistance	Rated current	55 A
Current per maximum power point, max.	44 A	
Rated DC current per connection	Current per string, max.	44.00 A

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Enclosure

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

General data

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

Inputs

Amount of maximum power points (MPP)	2		
Number of conduit inlets	8		
DC Input + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Compatible cable crossection	TÜV 2 Pfg1169/08.07
		Wire cross-section, min.	2.5 mm²
		Wire cross-section, max.	16 mm²
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	4		

Outputs

Max. number of DC outputs	per Maximum Power Point 1 output		
DC Output + & -	Wire connection	Type of connection	Stäubli MC4-Evo 2 connector
		Compatible cable crossection	TÜV 2 Pfg1169/08.07
		Wire cross-section, min.	2.5 mm²
		Wire cross-section, max.	16 mm²

Remote disconnector

Automatic reclosing after voltage drop	Yes		
Number of operating cycles	10000		
Control voltage	100 V AC - 250 V AC 50/60Hz		
Remote disconnector auxiliary contact	Cable entry	Number of cable entries	1
	Wire connection	Type of connection	Screw terminal connectors
		Flexible, max. H05(07) V-K	1.5 mm²
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm²

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Remote disconnector control contact	Cable entry	Number of cable entries	1
	Wire connection	Type of connection	Screw terminal connectors
		Flexible, max. H05(07) V-K	1.5 mm²
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm²
Type of power circuit disconnection	Under voltage tripping		
Turn-off time	<3 s		
Turn-on time	<15 s when the control unit was completely discharged		
Current consumption of switch	Type of switch	Fireman switch	
	Current consumption, note	The Peak current only arises for a short time when the capacitors of the fireman switch were previously completely discharged.	
	Current consumption peak	300 mA	
	Current consumption continuous	30 mA	
Number of breaking operation cycles (rated current)	300		
Switch disconnector execution	Remote disconnector inside enclosure		
Switching disconnector capacity	IEC 60947-3, DC-PV1		

Important note

Product information	The SCIP number was assigned due to a lead content of more than 0.1 % of the net weight. Safe use instruction according to ECHA: The identification of the hazardous substance is sufficient to allow safe use of the article throughout its life cycle, including the service life, disassembly and waste/recycling phase

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		

Tender specification sheets

Long specification	Automatic ON and OFF switching fireman switch for the connection to 2 MPP tracker in the inverter. Suitable for remote disconnection of the DC side by the fire department. Max. string voltage Uoc: 1100V MPP1: 2 inputs, connection via MC4-Evo 2 connector, compatible with cable type TÜV 2 Pfg1169/08.07 / EN 50618:2063 1 output, connection via MC4-Evo 2 connector, compatible with cable type TÜV 2 Pfg1169/08.07 / EN 50618:2063 MPP2: identical to MPP1 DC fireman switch: Switching off by undervoltage tripping. Automatic reconnection after the control voltage

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	(230 V AC) is applied again. With signal contact. Connection of the fireman switch control line 230 VAC via cable glands (8-12mmØ) max. conductor cross-section: 1.5mm². Connection of the signal contact 24 VDC via cable glands (8-12mmØ) max. conductor cross-section: 1.5mm². Protection class: IP65. All built into a glas fibre reinforced polyester housing. Dimensions HxWxD: 370x200x135mm. Approval according to low voltage switchgear IEC 61439-1:2011 and EN 61439-2:2011

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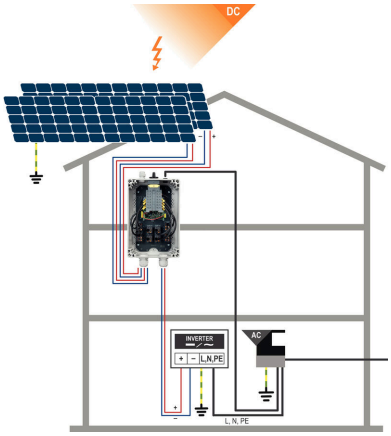
Drawings



PVN 1 M2 I6 S0 F3 V1 O1 TX PX 10

Series
PVN = PV Next
VPU = PV Protect

Level
1 = DC trunk box (L1)

Series
1 = 1 MPPT supported
2 = 2 MPPT supported
3 = 3 MPPT supported
4 = 4 MPPT supported
6 = 6 MPPT supported

Inputs
1...12 inputs

Switch
x = n/a
0 = manual switch
1 = remote switch

Voltage
10 = 1kV
11 = 1,1kV
15 = 1,5kV

Powersupply
x = n/a

Monitoring
x = n/a

Output Type
0 = CG
1 = WM4C
2 = MC4-Evo 2

SPD
2/0 = TYP II
1 = TYP I+II
X = No SPD

Fuses
x = n/a
3 = only fuse holders

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