

PVN DC 2IN/1OUTX2 2MPPT SPD1R CG 1.1KV
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, 2 MPPT's, 2 Inputs / 1 Output per MPPT, Surge protection I / II, Cable gland
Order No.	2866320000
Type	PVN DC 2IN/1OUTX2 2MPPT SPD1R CG 1.1KV
GTIN (EAN)	4064675604006
Qty.	1 pc(s).
Replacement parts	2530600000 2534300000

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Technical data
Dimensions and weights

Depth	132 mm	Depth (inches)	5.197 inch
Height	228 mm	Height (inches)	8.976 inch
Width	200 mm	Width (inches)	7.874 inch
Net weight	2,000 g		

Temperatures

Ambient temperature	-40 °C...+50 °C	Humidity	5...95 %, no condensation
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Guarantee

Time interval	5 years
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Electrical characteristics

Current per MPPT, max.		30 A	
Rated DC current per connection	Current per string, max.	30 A	
	Ambient temperature	-25 °C...+50 °C	
	Short-circuit at main output	Duration	10 h
		Factor	1.25 * I _{nc}
Rated short-term current resistance	Rated current	37.5 A	
Rated DC voltage	1,100 V DC		

Enclosure

Connection type String	Internal terminal (with cable gland feed-through)	Enclosure attachment	Via the four holes under the cover screws
Insulating material	Polyester glass-fibre reinforced, Polycarbonate	Switch disconnecter execution	no switch
Type of mounting	4 screws, Wall mounting		

General data

Installation location	Protected outdoor area (>1 km from sea)	Protection degree	IP65
Standards	IEC 61439-2 ed 2.0, EN 61439-2:2011		

Inputs

Amount of Maximum Power Point Tracking	2 MPPT		
DC Input + & -	Wire connection	Type of connection	PUSH IN
		Compatible cable crosssection	EN 50618:2015, TÜV 2 Pfg 1169/08.07
		Wire cross-section, min.	2.5 mm²
		Wire cross-section, max.	16 mm²
	Cable entry	Number of cable entries	4

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Functional earth connector	Cable entry	Number of cable entries	1
	Wire connection	Type of connection	Screw 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 Tracking 2 inputs connected in parallel		
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	PUSH IN
		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.	16 mm ²
Max. number of DC outputs	per Maximum Power Point Tracking 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	IEC 61439-2 ed 2.0, EN 61439-2:2011
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

Approvals

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Technical data

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity for PV Next Mini 2
Technical Documentation	PVN DC 2IN/1OUTX2 2MPPT SPD1R CG 1.1KV Schematic Diagram for PV Next 2x 2In 1Out Boxes
User Documentation	Manual PV Next String Combiner Box MANUAL PV NEXT MINI 2 DE/EN
Catalogues	Catalogues in PDF-format

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Drawings

PCB design

