

**PVN DC 2IN/1OUTX2 2MPPT SPD2R 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 II, Cable gland
Order No.	<a href="#">2866330000</a>
Type	PVN DC 2IN/1OUTX2 2MPPT SPD2R CG 1.1KV
GTIN (EAN)	4064675604013
Qty.	1 pc(s).
Replacement parts	<a href="#">2530660000</a>

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Catalogue status 18.11.2022 / 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	228 mm	Height (inches)	8.976 inch
Width	200 mm	Width (inches)	7.874 inch
Net weight	1,800 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 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	Factor	1.25 * I <sub>nc</sub>
Duration		10 h	
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 cross-section	EN 50618:2015, TÜV 2 Pfg 1169/08.07
		Wire cross-section, min.	2.5 mm <sup>2</sup>
		Wire cross-section, max.	16 mm <sup>2</sup>
	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 <sup>2</sup>
		w. wire end ferrule, DIN 46228 pt 1, max.	16 mm <sup>2</sup>
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	Wire connection	Type of connection	Tension clamp connection with actuator
		Flexible, max. H05(07) V-K	1.5 mm <sup>2</sup>
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm <sup>2</sup>
	Cable entry	Number of cable entries	1

**Outputs**

DC Output + & -	Wire connection	Type of connection	PUSH IN
		Compatible cable crosssection	TÜV 2 Pfg 1169/08.07, EN 506 18:2015
		Wire cross-section, min.	2.5 mm <sup>2</sup>
		Wire cross-section, max.	16 mm <sup>2</sup>
Max. number of DC outputs	per Maximum Power Point Tracking 1 output		

**Surge protection DC side**

Discharge current $I_n$ (8/20 $\mu$ s)	20 kA	Discharge current, max. (8/20 $\mu$ s)	40 kA
Maximum continuous operating voltage UCPV mode +/-, -/PE, +/-PE	1,100 V DC	PV system voltage, max. $U_{cpv}$	1,100 V
Protection level $U_p$ (+/-)	$\leq 3.8$ kV	Protection level $U_p$ (+/PE)	$\leq 3.8$ kV
Protection level $U_p$ (-/PE)	$\leq 3.8$ kV	Requirements class	Type 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 $\mu$ s)	50 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**

Approvals



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## Technical data

### Downloads

White paper	<a href="#">Application notes – Fact Sheet DE PV CB Wie man Gebäude gegen Blitzeinschläge schützt</a> <a href="#">Application notes – Fact Sheet DE PV Wie man die Lebensdauer eines GAK verlängert</a> <a href="#">Application notes – Fact Sheet DE CB PV NEXT</a> <a href="#">Application notes – Fact Sheet EN CB PV NEXT</a> <a href="#">Application notes – Fact Sheet EN PV How to protect buildings against lightning strikes</a> <a href="#">Application notes – Fact Sheet EN PV How to extend the life time of a Combiner Box</a>
Catalogues	<a href="#">Catalogues in PDF-format</a>

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**Drawings**

**PCB design**

