

## PVN DC 3IF 30 2MPP SW SPD1R CG 10

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

www.weidmuller.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 5 1643-32. 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

Version	Photovoltaics, Combiner Box, PV Next, 1000 V, 2 MPP's, 3 Inputs / 3 Outputs per MPP, With fuse holder, Surge protection I / II, Switch disconnecter, Cable gland
Order No.	<a href="#">2683060000</a>
Type	PVN DC 3IF 30 2MPP SW SPD1R CG 10
GTIN (EAN)	4050118699883
Qty.	1 items

**PVN DC 3IF 30 2MPP SW SPD1R CG 10**

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

www.weidmueller.com

**Technical data**

**Approvals**

Approvals



ROHS Conform

**Dimensions and weights**

Depth	172 mm	Depth (inches)	6.7716 inch
Depth with add-on components	172 mm	Height	335 mm
Height (inches)	13.189 inch	Width	600 mm
Width (inches)	23.622 inch	Net weight	6717 g

**Temperatures**

Ambient temperature -40 °C...45 °C Humidity 5 - 90 %, no condensation

**Environmental Product Compliance**

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

**DC string monitoring**

Monitoring function Non monitored

**Included in delivery**

Included accessories	Article	Mounting foot
	Quantity	4
	Article	Sealing plug
	Quantity	11

**Approvals and norms**

Approvals EN 61439-2, IEC 61439-2

**Guarantee**

Time interval 5 years

**Electrical characteristics**

Rated DC voltage	1000 V
Rated short-term current resistance	Rated current 56.25 A
Current per Maximum Power Point, max.	45 A
Rated DC current per connection	Current per string, max. 30.00 A

**PVN DC 3IF 30 2MPP SW SPD1R CG 10**

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

www.weidmueller.com

**Technical data**

**Enclosure**

Cover	with cover, removeable	Insulating material	Polyester glass-fibre reinforced, Polycarbonate
Type of mounting	Wall mounting, 4 screws	Impact resistance	IK08 in accordance with IEC 62208, IK10 in accordance with IEC 62262
Enclosure attachment	Via mounting feets	Protection class	II
Connection type string	Internal terminal (with cable gland feed-through)		

**General data**

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

**Inputs**

Cartridge fuse	10 x 38 mm			
Fused poles of string	+/-			
Fuse-link standard	IEC 60269-1, IEC 60269-6, gPV (EN 60269-6)			
Amount of maximum power points (MPP)	2			
Functional earth connector	Cable entry	Number of cable entries	1	
		Cable diameter, min.	5 mm	
		Cable diameter, max.	10 mm	
		Cable gland	M 16	
	Wire connection	Type of connection	PUSH IN with actuator	
		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>		
Number of conduit inlets	8			
DC Input + & -	Wire connection	Type of connection	PUSH IN with actuator	
		Compatible cable crosssection	EN 50618:2015	
		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	6	
		Cable diameter, min.	5 mm	
		Cable diameter, max.	10 mm	
		Cable gland	M 25	
	Fuse type	Empty fuse holder		
	Fuses	Yes		
Max. number of DC inputs	per Maximum Power Point 3 inputs connected in parallel			
Number of string inputs per MPP	≤ 3			
Surge protection auxiliary contact	Cable entry	Number of cable entries	1	
		Cable diameter, min.	5 mm	
		Cable diameter, max.	10 mm	
		Cable gland	M 16	
	Wire connection	Type of connection	PUSH IN with actuator	
		Flexible, max. H05(07) V-K	1.5 mm <sup>2</sup>	

## PVN DC 3IF 30 2MPP SW SPD1R CG 10

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

www.weidmueller.com

### Technical data

Number of inputs	6	w. wire end ferrule, 1.5 mm <sup>2</sup> DIN 46228 pt 1, max.
------------------	---	--

#### Outputs

Max. number of DC outputs	per Maximum Power Point 3 outputs connected in parallel		
DC Output + & -	Wire connection	Type of connection	PUSH IN with actuator
		Compatible cable crosssection	TÜV 2 Pfg1169/08.07
		Wire cross-section, min.	2.5 mm <sup>2</sup>
		Wire cross-section, max.	16 mm <sup>2</sup>

#### Surge protection DC side

Standards	EN 61643-31	Lightning test current Iimp (10/350 µs)	6.25 kA
Discharge current, max. (8/20 µs)	40 kA	Protection level Up (+/-, -/PE, +/PE)	≤ 3.8 kV
Standby power consumption PC	<0.2 W	Short-circuit current ISCPV	11000 A
Total discharge current Itotal (8/20µs)	50 kA	Discharge current In (8/20 µs)	20 kA
Requirements class	Type I/II	Total discharge current Itotal (10/350µs)	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, max. Ucpv	1000 V
Surge protection DC side	1000 V type I + II	Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/PE	1100 V

#### DC load break switch

Voltage type	DC	Rated impulse withstand voltage	8 kV
Nominal voltage	1000 V	Nominal current	45 A
Number of contacts as NC contact	0	Switch disconnecter execution	switch in cover
Switching disconnecter capacity	DC-PV1, IEC 60947-3	Motor drive available	No
Rated short-circuit making current	1.4 A	Number of breaking operation cycles at rated current	300
Number of operating cycles	10000	Number of contacts as NO contact	4

#### 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 Fuses are not included
---------------------	--

#### 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	Combiner box for inverters with 2 MPP tracker, suitable for protecting the DC side of a photovoltaic system according to EN 51543-32. MPP1:
--------------------	---

### PVN DC 3IF 30 2MPP SW SPD1R CG 10

**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26  
D-32758 Detmold  
Germany

[www.weidmueller.com](http://www.weidmueller.com)

## Technical data

3 inputs, connection via  
M25 cable gland with  
3x7mm Ø cable entry.  
PUSH IN connection / 2.5  
- 6mm<sup>2</sup> single-wire, multi-  
wire, with/without ferrule.  
3 outputs, connection via  
M25 cable gland with  
3x7mm Ø cable entry.  
PUSH IN connection / 2.5  
- 6mm<sup>2</sup> single-wire, multi-  
wire, with/without ferrule.  
MPP2:  
identical to MPP1  
Max. string voltage Uoc:  
1000V  
1 class/type I + II  
combined arrester with  
signal contact  
Fuse holders for inputs and  
outputs (fuses 10x38 to be  
ordered separately)  
With load break switch  
for safe separation of the  
string lines  
Connection of the  
signal contact via cable  
glands (8-12mmØ) max.  
conductor cross-section:  
1.5mm<sup>2</sup>  
Connection of the  
functional earth via  
cable glands (8-12mmØ)  
Conductor cross-section:  
16-25mm<sup>2</sup>  
Protection class: IP65  
All built into a glas fibre  
reinforced polyester  
housing. Dimensions  
HxWxD: 330x558x249  
mm  
Approval according to  
low voltage switchgear  
and controlgear IEC  
61439-1:2011 and EN  
61439-2:2011

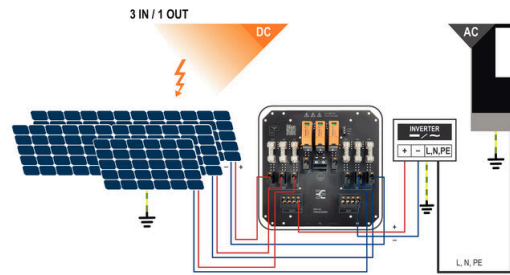
PVN DC 3IF 30 2MPP SW SPD1R CG 10

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

Drawings

www.weidmueller.com

PCB design



PVN DC 3IF 30 2MPP SW SPD1R CG 10

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

Drawings

www.weidmueller.com

