Data sheet

PVN1M1I3SXFXV1O0TXPX10

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

Version	Photovoltaics, Combiner Box, 1000 V, 1 MPP, 3 Inputs / 3 Outputs per MPP, Surge protection I / II, Cable gland
Order No.	2683110000
Type	PVN1M1I3SXFXV1O0TXPX10
GTIN (EAN)	4050118699722
Qty.	1 items
Delivery status	This article will no longer be available in the future.
Available until	2023-03-31T00:00:00+02:00
Alternative product	PVN DC 3I 3O 1MPP SPD1R CG 11

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Technical data

Approvals

Approvals	CE

Dimensions and weights

Depth	175 mm	Depth (inches)	6.8898 inch
Height	330 mm	Height (inches)	12.9921 inch
Width	186 mm	Width (inches)	7.3228 inch
Net weight	3305 g		

Temperatures

Ambient temperature	-40 °C...50 °C	Humidity	5 - 90 %, no condensation

Environmental Product Compliance

RoHS Compliance Status	Compliant
REACH SVHC	Lead 7439-92-1
SCIP	bdab5698-6a20-4370-8e28-8810d882d01a

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	37.5 A
Current per Maximum Power Point, max.	30 A	
Rated DC current per connection	Current per string, max.	30.00 A

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 foots	Connection type string	Internal terminal (with cable gland feed-through)

General data

Protection degree	IP65	Installation location	Protected outdoor area (Land and Sea)

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Inputs

Amount of maximum power points (MPP)	1		
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	Screw connection
		Flexible, max. H05(07) V-K	25 mm²
		w. wire end ferrule, DIN 46228 pt 1, max.	16 mm²
Number of conduit inlets	2		
DC Input + & -	Wire connection	Type of connection	PUSH IN
		Compatible cable crossection	EN 50618:2015
		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 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	Tension clamp connection with actuator
		Flexible, max. H05(07) V-K	1.5 mm²
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm²
Number of inputs	3		

Outputs

Max. number of DC outputs	per Maximum Power Point 3 outputs connected in parallel		
DC Output + & -	Wire connection	Type of connection	PUSH IN
		Compatible cable crossection	TÜV 2 Pfg1169/08.07
		Wire cross-section, min.	2.5 mm²
		Wire cross-section, max.	16 mm²

Surge protection DC side

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 curent 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

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PV system voltage, max. Ucpv	1100 V	Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/PE	1100 V

DC load break switch

Switch disconnector execution	no switch

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 6.0	EC002928	ETIM 7.0	EC002928
ETIM 8.0	EC003857	ETIM 9.0	EC003857
ETIM 10.0	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
ECLASS 13.0	22-57-02-92	ECLASS 14.0	22-57-02-92
ECLASS 15.0	22-57-02-92		

Tender specification sheets

Long specification	Combiner box for inverters with 1 Mpp-tracker, used to protect the DC side. Max. String voltage Uoc: 1000 V MPPT1: Up to 3 inputs, connection via M25 cable gland with 3x7mm Ø cable entry (for positive and negative one each) PUSH IN connection / 2.5 - 6mm² single-wire, multi-wire, with/without ferrule Up to 3 outputs, connection via M25 cable gland with 3x7mm Ø cable entry (for positive and negative one each) PUSH IN connection / 2.5 - 6mm² single-wire, multi-wire, with/without ferrule without DC switch 1 surge protection 1000 V type I + II with remote contact Connection of the signal contact via cable glands (8-12mmØ) max. cable cross-section: 1.5mm² Connection of functional earth via cable glands (8-12mmØ) cable cross-section: 16mm² Protection class: IP65 Plastic enclosure Dimensions HxWxD: 186x302x175 mm

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Technical data

	According to standard, Low-voltage switchgear assemblies - Part 1: General specifications, (IEC 61439-1:2011), BS EN 61439-2:2019

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Drawings

PCB design









