

PVN1M3I9S0FXV101TXPX10
Weidmüller Interface GmbH & Co. KG

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com
Product image


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, PV Next, 1000 V, 3 MPP's, 3 Inputs / 3 Outputs per MPP, Surge protection I / II, Switch disconnecter, WM4C
Order No.	2683220000
Type	PVN1M3I9S0FXV101TXPX10
GTIN (EAN)	4050118700084
Qty.	1 items
Delivery status	This article will no longer be available in the future.
Last order date	2025-12-31T00:00:00+01:00
Alternative product	PVN DC 3I 3O 3MPP SW SPD1R WM4 11

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Technical data
Approvals

Approvals



ROHS Conform

Dimensions and weights

Depth	249 mm	Depth (inches)	9.8031 inch
Depth with add-on components	250 mm	Height	334 mm
Height (inches)	13.1496 inch	Width	558 mm
Width (inches)	21.9685 inch	Net weight	6900 g

Temperatures

Ambient temperature -40 °C...50 °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

Approvals and norms

Approvals IEC 61439-2, EN 61439-2:2020

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. 35.00 A

Enclosure

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	Protection class	II
Connection type string	Plug WM4C		

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

Inputs

Amount of maximum power points (MPP)	3		
Functional earth connector	Cable entry	Number of cable entries	2
		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 mm ²
		w. wire end ferrule, DIN 46228 pt 1, max.	16 mm ²
Number of conduit inlets	9		
DC Input + & -	Wire connection	Type of connection	WM4C plug-in connector
		Compatible cable crossection	EN 50618:2015, TÜV 2 Pfg 1169/08.07
		Wire cross-section, min.	2.5 mm ²
		Wire cross-section, max.	6 mm ²
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	2
		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 mm ²
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm ²
Number of inputs	9		

Outputs

Max. number of DC outputs	per Maximum Power Point 3 outputs connected in parallel		
DC Output + & -	Wire connection	Type of connection	WM4C plug-in connector
		Compatible cable crossection	TÜV 2 Pfg 1169/08.07, EN 50618:2015
		Wire cross-section, min.	4 mm ²
		Wire cross-section, max.	6 mm ²

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Surge protection DC side

Standards	EN 61643-31	Lightning test current Iimp (10/350 µs)	6.25 kA
Discharge current (8 / 20 µs), max.	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 / 20 µs)	50 kA	Discharge current In (8/20 µs)	20 kA
Requirements class	Type I/II	Total discharge current (Itotal) (10 / 350 µs)	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 (Ucpv), max.	1100 V
Maximum continuous operating voltage, 1100 V DC UCPV mode (+ / -), (- / PE), (+ / PE)			

DC load break switch

Rated impulse withstand voltage	8 kV	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 (rated current)	300
Number of operating cycles	10000		

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
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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 3 MPP tracker, suitable for protecting the DC side of a photovoltaic system according to EN 51543-32. MPP1: 3 inputs, connection via WM4 C connector, compatible with cable type TÜV 2 Pfg 1169/08.07 / EN 50618:2063 3 outputs, connection via WM4 C connector, compatible with cable type TÜV 2 Pfg 1169/08.07 / EN 50618:2063 MPP2 to 3: identical to MPP1 Max. string voltage Uoc: 1000V 1 class/type I + II combined arrester with signal contact With load break switch for safe separation of the string lines
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Connection of the
signal contact via cable
glands (8-12mmØ) max.
conductor cross-section:
1.5mm²

Connection of the
functional earth via
cable glands (8-12mmØ)
Conductor cross-section:
16-25mm²

Protection class: IP65
All built into a glass fibre
reinforced polyester
housing. Dimensions
HxWxD: 334x558x249
mm

Approval according to
low voltage switchgear
and controlgear IEC
61439-1:2011 and EN
61439-2:2011

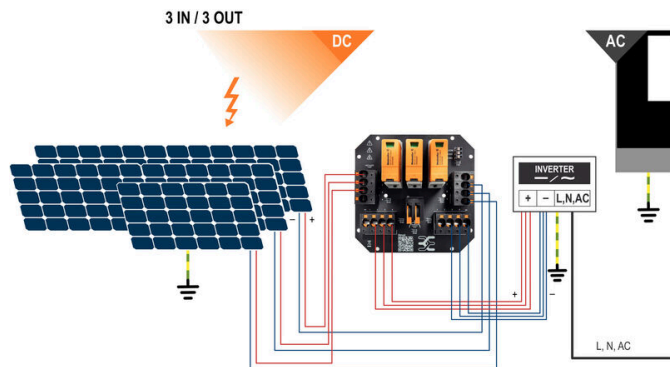
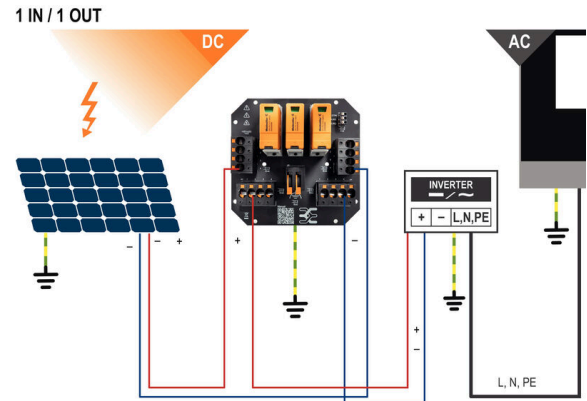
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Drawings

PCB design



PVN 1 M2 I6 S0 F3 V1 Q1 TX PX 10									
Series		Voltage		Powersupply		Monitoring		Output Type	
PVN = PV Next		10 = 1kV		x = n/a		x = n/a		0 = CG	
VPU = PV Protect		11 = 1,1kV						1 = WM4C	
		15 = 1,5kV						2 = MC4-Evo Z	
Level								SPD	
1 = DC trunk box (L1)								2/0 = TYP II	
Series								1 = TYP I-II	
1 = 1 MPPT supported								X = No SPD	
2 = 2 MPPT supported								Fuses	
3 = 3 MPPT supported								x = n/a	
4 = 4 MPPT supported								3 = only fuse holders	
6 = 6 MPPT supported									
Inputs									
1...12 inputs									
Switch									
x = n/a									
0 = manual switch									
1 = remote switch									

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