

PVN1M1I2SXFV100TXPX11
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, 1 MPPT, 2 Inputs / 1 Output per MPPT, Surge protection I / II, Cable gland
Order No.	2791930000
Type	PVN1M1I2SXFV100TXPX11
GTIN (EAN)	4064675072973
Qty.	1 pc(s).
Replacement parts	2530530000

Creation date November 18, 2022 3:18:55 PM CET

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	1,541 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	
	Short-circuit at main output	Factor	1.25 * I _{nc}
		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	Polycarbonate	Switch disconnecter execution	no switch
Type of mounting	Wall mounting, 4 screws		

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	1 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 ²
		Wire cross-section, max.	16 mm ²
	Cable entry	Number of cable entries	2

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Functional earth connector	Cable entry	Number of cable entries	1
	Wire connection	Type of connection	Tension clamp connection with actuator
		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	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
	Cable entry	Number of cable entries	1

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
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 (+/-)	≤ 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
Total discharge current I_{total} (8/20 μ 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

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Tender specification sheets

Long specification	<p>Combiner box for inverters with 1 Mpp tracker, used to protect the DC side. Max. String voltage Uoc:1000 V MPPT1: Up to 2 inputs, connected 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 1 output connected 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 (8-12mm Ø) max. cable cross-section: 1.5mm² Connection of functional earth via cable glands (8-12mm Ø) cable cross-section: 16mm² Protection class: IP65 Plastic enclosure Dimensions HxWxD:200x228x132 mm According to standard, Low-voltage switchgear assemblies - Part 1: General specifications, (IEC 61439-1:2011), BS EN 61439-2:2011</p>
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Approvals

Approvals



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Technical data

Downloads

Approval/Certificate/Document of Conformity	PV Next Mini EU Declaration of Conformity
Engineering Data	CAD data – STEP Application notes – Schematic Diagram for PV Next Mini
Technical Documentation	Customer drawing
User Documentation	MANUAL PV NEXT IT/ES/FR MANUAL PV NEXT MINI DE/EN
White paper	Application notes – Fact Sheet DE PV CB Wie man Gebäude gegen Blitzeinschläge schützt Application notes – Fact Sheet DE PV Wie man die Lebensdauer eines GAK verlängert Application notes – Fact Sheet DE CB PV NEXT Application notes – Fact Sheet EN CB PV NEXT Application notes – Fact Sheet EN PV How to protect buildings against lightning strikes Application notes – Fact Sheet EN PV How to extend the life time of a Combiner Box
Catalogues	Catalogues in PDF-format

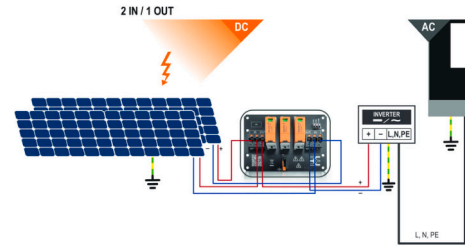
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Drawings

PCB design



PVN 1 M2 I6 S0 F3 V1 Q1 TX PX 10	
Series PVN - PV Next VPU - PV Protect	Voltage 10 - 1kV 11 - 1.1kV 15 - 1.5kV
Level 1 = DC trunk box (L1)	Power supply x = n/a
Series 1 = 1 MPPT supported 2 = 2 MPPT supported 3 = 3 MPPT supported 4 = 4 MPPT supported 6 = 6 MPPT supported	Monitoring x = n/a
Inputs 1..12 inputs	Output Type 0 = EG 1 = VMAC 2 = MCA-Exp 2
Switch x = n/a 0 = manual switch 1 = remote switch	SPD 0 = TYP II 1 = TYP I+II X = No SPD
	Fuses x = n/a 3 = only fuse holders