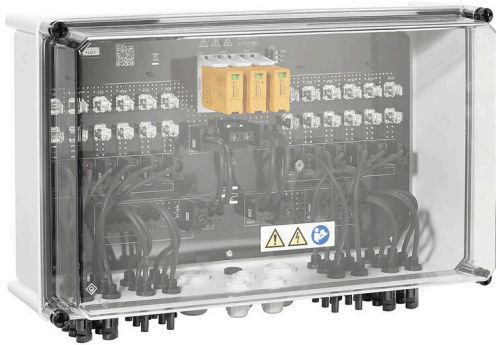


## PVN DC 6IF 7O 1MPP SPD1R WM4 10

**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 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, 1 MPP, 6 Inputs / 6 Outputs per MPP, With fuse holder, Surge protection I / II, WM4C
Order No.	<a href="#">2737440000</a>
Type	PVN DC 6IF 7O 1MPP SPD1R WM4 10
GTIN (EAN)	4032248395545
Qty.	1 items

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**Technical data**

**Approvals**

Approvals



ROHS Conform

**Dimensions and weights**

Depth	210 mm	Depth (inches)	8.2677 inch
Height	334 mm	Height (inches)	13.1496 inch
Width	488 mm	Width (inches)	19.2126 inch
Net weight	6416 g		

**Temperatures**

Ambient temperature 25 °C...40 °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

**Included in delivery**

Included accessories	Article	Sealing plug
	Quantity	8

**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	112.5 A
Current per Maximum Power Point, max. 90 A		
Rated DC current per connection	Current per string, max.	35.00 A
	Current per string, max.	90.00 A

**Enclosure**

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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## Technical data

### General data

Standards	EN 61643-31, IEC 61439-2 ed 3.0	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)	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 mm <sup>2</sup>
	w. wire end ferrule, DIN 46228 pt 1, max.	16 mm <sup>2</sup>	
Number of conduit inlets	6		
DC Input + & -	Wire connection	Type of connection	WM4C plug-in connector
		Compatible cable cross-section	EN 50618:2015
		Wire cross-section, min.	2.5 mm <sup>2</sup>
		Wire cross-section, max.	6 mm <sup>2</sup>
Fuse type	Empty fuse holder		
Fuses	Yes		
Max. number of DC inputs	per Maximum Power Point 6 inputs connected in parallel		
Number of string inputs per MPP	≥ 4...≤ 6		
Surge protection auxiliary contact	Cable entry	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 <sup>2</sup>
		w. wire end ferrule, DIN 46228 pt 1, max.	1.5 mm <sup>2</sup>
Number of inputs	6		

### Outputs

Max. number of DC outputs	per Maximum Power Point 7 outputs connected in parallel		
DC Output + & -	Wire connection	Type of connection	PUSH IN
		Compatible cable cross-section	TÜV 2 Pfg1169/08.07
		Wire cross-section, min.	4 mm <sup>2</sup>
		Wire cross-section, max.	6 mm <sup>2</sup>
		Type of connection	Screw connection

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**Technical data**

Compatible cable cross-section	TÜV 2 Pfg1169/08.07
Wire cross-section, min.	2.5 mm <sup>2</sup>
Wire cross-section, max.	50 mm <sup>2</sup>

**Surge protection DC side**

Standards	EN 61643-31, IEC 61439-2 ed 3.0	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 I <sub>total</sub> (8/20µs)	50 kA	Discharge current I <sub>n</sub> (8/20 µs)	20 kA
Requirements class	Type I/II	Total discharge current I <sub>total</sub> (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. U <sub>cpv</sub>	1100 V
Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/PE	1100 V		

**DC load break switch**

Switch disconnector execution	no switch
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**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
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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 1 MPP tracker, suitable for protecting the DC side of a photovoltaic system according to EN 51543-32. MPP1: 6 inputs, connection via WM4 C connector, compatible with cable type TÜV 2 Pfg1169/08.07 / EN 50618:2063 6 outputs, connection via WM4 C connector, compatible with cable type TÜV 2 Pfg1169/08.07 / EN 50618:2063 Max. string voltage U <sub>oc</sub> : 1000V 1 class/type I + II combined arrester with signal contact
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## Technical data

Fuse holders for inputs and outputs (fuses 10x38 to be ordered separately)  
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 glass fibre reinforced polyester housing. Dimensions HxWxD: 334x488x210 mm  
Approval according to low voltage switchgear and controlgear IEC 61439-1:2011 and EN 61439-2:2011

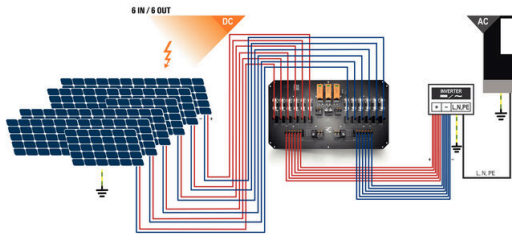
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Drawings

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PCB design



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Drawings

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