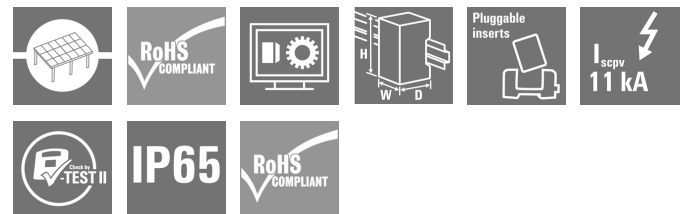


PVC DC 1IF 10 2MPP SPD1R WM4C 10

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, 2 MPP's, 1 Input / 1 Output per MPP, Surge protection I / II, With fuse holder, 1000 V
Order No.	8000137869
Type	PVC DC 1IF 10 2MPP SPD1R WM4C 10
GTIN (EAN)	4099987194174
Qty.	1 pc(s).
Replacement parts	2530530000

Creation date May 11, 2025 11:06:16 PM CEST

Catalogue status 26.04.2025 / We reserve the right to make technical changes.

PVC DC 1IF 10 2MPP SPD1R WM4C 10

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

www.weidmueller.com

Technical data

Dimensions and weights

Depth	132 mm	Depth (inches)	5.197 inch
Depth with add-on components	132 mm	Height	340 mm
Height (inches)	13.386 inch	Width	200 mm
Width (inches)	7.874 inch	Net weight	2,785 g

Temperatures

Ambient temperature	-20 °C...50 °C	Humidity	5...95 %, no condensation
---------------------	----------------	----------	---------------------------

Guarantee

Time interval	5 years
---------------	---------

Electrical characteristics

Current per Maximum Power Point, max. 20 A	
Rated DC voltage	1,000 V
Rated short-term current resistance	Rated current 25 A

Enclosure

Cover	with cover	Enclosure attachment	Via mounting feet
Impact resistance	IK08 in accordance with IEC 62208, IK10 in accordance with IEC 62262	Insulating material	Polyester glass-fibre reinforced, Polycarbonate
Protection class	II	Type of mounting	Wall mounting

General data

Installation location	Protected outdoor area (>1 km from sea)	Protection degree	IP65
Standards	EN 61643-31		

Inputs

Amount of maximum power points (MPP)	2		
Cartridge fuse	10 x 38 mm		
Functional earth connector	Cable entry	Number of cable entries	1
Fuse type	Empty fuse holder		
Fuse-link standard	gPV (EN 60269-6)		
Fused poles of string	+/-		
Max. number of DC inputs	per Maximum Power Point 1 input		
Number of string inputs per MPP	1		
Number of inputs	1		

Outputs

Max. number of DC outputs	per Maximum Power Point 1 output
---------------------------	----------------------------------

PVC DC 1IF 10 2MPP SPD1R WM4C 10**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

Technical data**Surge protection DC side**

Discharge current I_n (8/20 μ s)	20 kA	Discharge current, max. (8/20 μ s)	40 kA
Lightning test current I_{imp} (10/350 μ s)	6.25 kA	Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/-PE	1,000 V
PV system voltage, max. U_{cpv}	1,000 V	Protection level U_p (+/-, -/PE, +/-PE)	≤ 3.8 kV
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 kA	Standards	EN 61643-31
Standby power consumption P_C	<0.2 W	Surge protection DC side	1000 V type I + II
Total discharge current I_{total} (8/20 μ s)	50 kA	Total discharge current I_{total} (10/350 μ s)	12.5 kA

DC load break switch

Switch disconnector execution	no switch	Voltage type	DC
-------------------------------	-----------	--------------	----

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		

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

Approvals



ROHS

Conform

PVC DC 1IF 10 2MPP SPD1R WM4C 10

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

www.weidmueller.com

Technical data

Downloads

Approval/Certificate/Document of Con-
formity

[Declaration fo conformity PV Next](#)

Engineering Data

[Schematic diagram](#)

User Documentation

[Manual PV Next String Combiner Box](#)

White paper

[Fact Sheet DE PV CB Wie man Gebäude gegen Blitzeinschläge schützt](#)

[Fact Sheet DE PV Wie man die Lebensdauer eines GAK verlängert](#)

[Fact Sheet DE PV CB Wann Sicherungen zu installieren sind](#)

[Fact Sheet DE CB PV NEXT](#)

[Fact Sheet EN PV CB When DC fuses are mandatory to install](#)

[Fact Sheet EN CB PV NEXT](#)

[Fact Sheet EN PV How to protect buildings against lightning strikes](#)

[Fact Sheet EN PV How to extend the life time of a Combiner Box](#)

[Fact Sheet EN PV Combiner Box earthing](#)

[Fact Sheet DE PV Combiner Box Erdung](#)

Catalogues

[Catalogues in PDF-format](#)

PVC DC 1IF 10 2MPP SPD1R WM4C 10

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

www.weidmueller.com

Drawings



PVC DC 1IF 10 2MPP SPD1R WM4C 10

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

www.weidmueller.com

Accessories

PV-Stick field connectors



Faster is better. This also applies to the cabling of solar systems. Our handy connectors stay firmly in your grip even in frosty temperatures and can be installed very quickly and easily without a crimping tool.

You don't need crimp contacts and crimping tools and you avoid assembly errors. This saves up to 50% installation time – without affecting quality. The new photovoltaic connectors are TÜV-approved and comply with IEC 62852.

Our "SNAP IN" technology enables safe connections with minimal effort – insert, turn: current!

- 1.500 V DC (DE) / 1,500 V DC (EN)
- SNAP IN technology
- Standard-compliant quality in accordance with IEC 62852
- Ergonomic, prize-winning design
- Fastest PV connector currently available
- Reliable latching

General ordering data

Type	PV-STICK- VPE10	Version
Order No.	1303490000	Photovoltaics, Plug-in connector
GTIN (EAN)	4050118102529	
Qty.	10 pc(s).	
Type	PV-STICK+ VPE10	Version
Order No.	1303450000	Photovoltaics, Plug-in connector
GTIN (EAN)	4050118102468	
Qty.	10 pc(s).	

PVC DC 1IF 10 2MPP SPD1R WM4C 10

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

www.weidmueller.com

Replacement parts

Spare Arrester



General ordering data

Type	VPU PV I+II 0 1000 E	Version
Order No.	2530530000	Surge voltage arrester, Low voltage, Accessories, Surge protection I /
GTIN (EAN)	4050118540741	II, Spare arrester
Qty.	9 pc(s).	