

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 items

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

Depth	132 mm	Depth (inches)	5.1968 inch
Depth with add-on components	132 mm	Height	340 mm
Height (inches)	13.3858 inch	Width	200 mm
Width (inches)	7.874 inch	Net weight	2785 g

Temperatures

Ambient temperature -20 °C...50 °C Humidity 5...95 %, 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

Included in delivery

Included accessories	Article	Mounting foot
	Quantity	4
	Article	Sealing plug
	Quantity	1

Guarantee

Time interval 5 years

Electrical characteristics

Rated DC voltage	1000 V
Rated short-term current resistance	Rated current 25 A
Current per Maximum Power Point, max. 20 A	
Rated DC current per connection	Current per string, max. 20.00 A

Enclosure

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

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General data

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

Inputs

Cartridge fuse	10 x 38 mm		
Fused poles of string	+/-		
Fuse-link standard	gPV (EN 60269-6)		
Amount of maximum power points (MPP)	2		
Functional earth connector	Cable entry	Number of cable entries	1
Fuse type	Empty fuse holder		
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		
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Surge protection DC side

Standards	EN 61643-31	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	11 kA
Total discharge current I _{total} (8/20 µs)	50 kA	Discharge current I _n (8/20 µs)	20 kA
Requirements class	Type I/II	Total discharge current I _{total} (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, max. U _{cpv}	1000 V
Surge protection DC side	1000 V type I + II	Maximum continuous operating voltage DC UCPV mode +/-, -/PE, +/-PE	1000 V

DC load break switch

Voltage type	DC	Switch disconnector execution	no switch
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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 2 MPP tracker, suitable for protecting the DC side of a photovoltaic system according to DIN CLC/TS 51643-32. MPP1: 1 input, connection via M25 cable gland with multiple sealing inserts. PUSH IN connection /
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single-wire, multi-wire,
with/without ferrule.
1 output, connection via
M25 cable gland with
multiple sealing inserts.
PUSH IN connection /
single-wire, multi-wire,
with/without ferrule.
MPP2:
identical to MPP1
Max. string voltage Uoc:
1000 VDC
1 class/type I + II
combined arrester with
signal contact
Fuse holders for inputs and
outputs (fuses 10x38 to be
ordered separately)
Connection of the
signal contact via M16
cable glands (Clamping
range 5-10 mmØ) max.
conductor cross-section:
1.5 mm²
Connection of the
functional earth via M16
cable glands (Clamping
range 5-10 mmØ)
Conductor cross-section: ≥
16 mm²
Protection class: IP65
All built into a glas fibre
reinforced polyester
housing. Dimensions
HxWxD: 335x200x132
mm
Approval according to low
voltage switchgear and
controlgear IEC 61439-1
and EN 61439-2

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Drawings



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

PV Sun Covers



General ordering data

Type	PV SUNCOVER 30/20/13	Version	
Order No.	8000143245		Photovoltaics, Sun cover
GTIN (EAN)	4099987111843		
Qty.	1 ST		

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Spare Arrester



General ordering data

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