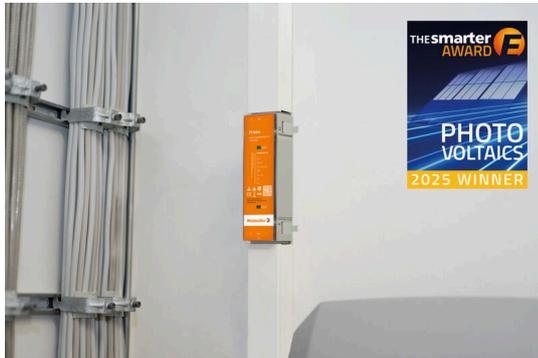


PVI DC 1I 1O 1MPP SPD1 MC4 10

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

www.weidmueller.com



The compact PV combiner box PV Inline with SPD Type I +II is used in rooftop PV installations.

It protects the PV system from overvoltages, including lightning strikes.

In the event of an overvoltage, it creates a ground connection.

The space-saving surge protection device (SPD) is particularly suitable for confined spaces.

It can be integrated into cable channels or mounted behind PV modules.

General ordering data

Version	Photovoltaics, PV Inline, 1100 V, 1 MPP, 1 Input / 1 Output per MPP, Surge protection I / II, MC4
Order No.	3108220000
Type	PVI DC 1I 1O 1MPP SPD1 MC4 10
GTIN (EAN)	4099987179775
Qty.	1 items

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Technical data

Approvals

Approvals



ROHS Conform

Dimensions and weights

Depth	52 mm	Depth (inches)	2.0472 inch
Height	280 mm	Height (inches)	11.0236 inch
Width	60 mm	Width (inches)	2.3622 inch
Net weight	658 g		

Temperatures

Ambient temperature -40 °C...85 °C Humidity 5 - 95% rel. humidity

Environmental Product Compliance

RoHS Compliance Status Compliant without exemption
REACH SVHC No SVHC above 0.1 wt%

Included in delivery

Included accessories	Article	Mounting foot
	Quantity	2

Guarantee

Time interval 5 years

Electrical characteristics

Rated DC voltage	1100 V
Rated short-term current resistance	Rated current 48.75 A
Current per Maximum Power Point, max.	39 A
Rated DC current per connection	Current per string, max. 39.00 A

Enclosure

Cover	with cover	Insulating material	ABS
Type of mounting	Wall mounting	Impact resistance	IK06
Enclosure attachment	Via mounting foots	Protection class	II
Connection type string	Plug MC4		

General data

Standards	IEC 61643-31, EN 50539-11	Protection degree	IP65
Installation location	Indoor use		

Inputs

Amount of maximum power points (MPP) 1

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Technical data

Functional earth connector	Wire connection	Type of connection	Pre-assembled cable
		Flexible, max. H05(07) 16 mm ²	
		V-K	
DC Input + & -	Wire connection	Type of connection	Stäubli MC4 connector
		Compatible cable	TÜV 2 Pfg1169/08.07 crosssection
		Wire cross-section, min.	4 mm ²
		Wire cross-section, max.	6 mm ²
Fuse type	Neither fuse cartridge nor 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		
DC Output + & -	Wire connection	Type of connection	Stäubli MC4 connector
		Wire cross-section, min.	4 mm ²
		Wire cross-section, max.	6 mm ²

Surge protection DC side

Standards	IEC 61643-31, EN 50539-11	Lightning test current limp (10/350 µs)	5 kA
Discharge current, max. (8/20 µs)	40 kA	Protection level Up (+/-, -/PE, +/-PE)	≤ 4.4 kV
Short-circuit current I _{SCP}	6000 A	Total discharge current I _{total} (8/20µs)	40 kA
Discharge current I _n (8/20 µs)	20 kA	Requirements class	Type I/II
Total discharge current I _{total} (10/350µs)	5 kA	PV system voltage, max. U _{cpv}	1100 V
Surge protection DC side	1000 V type I + II		

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 DIN CLC/TS 5 1643-32. MPP1: 1 input, connection via MC4 connector, compatible with cable type TÜV 2 Pfg1 169/08.07 / EN 50618:2063 1 output, connection via MC4 connector, compatible with cable type TÜV 2 Pfg1 169/08.07 / EN 50618:2063
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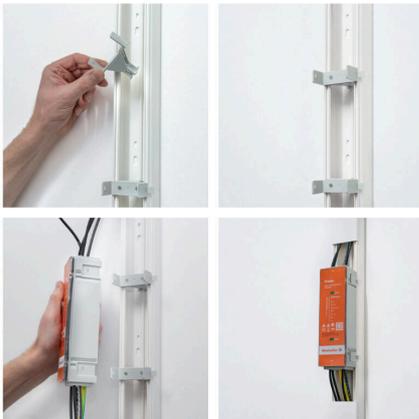
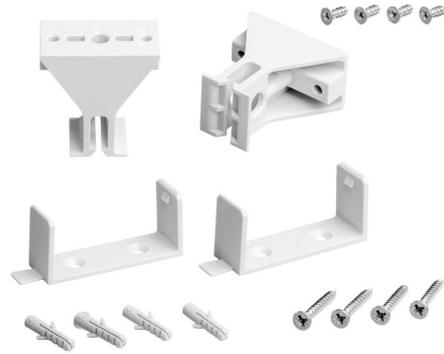
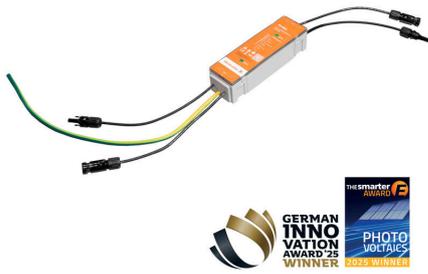
Max. string voltage Uoc:
1100 VDC
1 class/type I + II
combined arrester
Connection of the
functional earth via
pre-assembled cable,
Conductor cross-section:
16 mm²
Protection class: IP65
All built into a polyester
housing. Dimensions
HxWxD: 280x60x52 mm
Approval according to low
voltage switchgear and
controlgear IEC 61439-1
and EN 61439-2

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Drawings

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Drawings

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Accessories

Potential equalisation terminal block

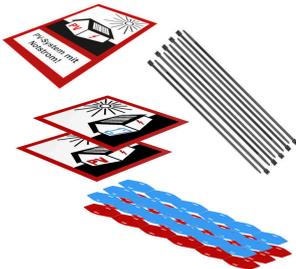


Our potential equalisation terminal blocks allow you to achieve reliably integrated potential equalisation, even in extended systems.

General ordering data

Type	EBB 25-50/16	Version	
Order No.	1547490000	Potential distributor terminal, Screw connection, Brass coloured, 50	
GTIN (EAN)	4050118387438	mm ² , 0 A, Number of connections: 3, Number of levels: 1	
Qty.	10 ST		

PV marking sets



General ordering data

Type	PV MARKER 1-3 MPP	Version	
Order No.	8000149520	Photovoltaics, Device markers, Accessories, Conductor and cable	
GTIN (EAN)	4099987229197	markers, Cable ties, Marking set, Warning label, Cable marker, Self-	
Qty.	1 ST	adhesive	

Aluminium terminal blocks



Klippon® Connect power feed-in terminal blocks WPD allow for an easy and safe installation of aluminium and copper conductors on a small footprint. A power supply or monitoring connection can also be used as an option. Customers can use the power feed-in terminal blocks WPD, regardless of the conductor material. They can be mounted either directly or on DIN rail TS35.

General ordering data

Type	WPD 230 2X50/2X50 GN	Version	
Order No.	2502600000	Potential distributor terminal, Screw connection, green, 50 mm ² , 150	
GTIN (EAN)	4050118516425	A, 1000 V, Number of connections: 4, Number of levels: 1	
Qty.	5 ST		

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Accessories

Replacement parts



General ordering data

Type	PVI DC CHANNEL GUIDE	Version	
Order No.	3110270000	Photovoltaics, Mounting foot	
GTIN (EAN)	4099987 189507		
Qty.	1 ST		
Type	PVI DC WALL BRACKET	Version	
Order No.	3110320000	Photovoltaics, Mounting foot	
GTIN (EAN)	4099987 189514		
Qty.	1 ST		