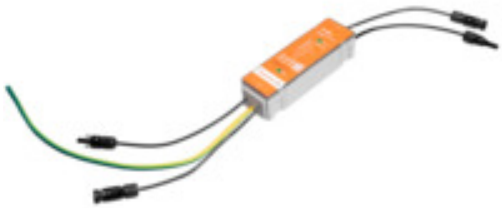
Data sheet

PVI DC 1I 1O 1MPP SPD1 MC4 10

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

www.weidmueller.com



General ordering data

Version	Photovoltaics, Combiner Box, 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 pc(s).

Creation date March 12, 2025 5:00:10 PM CET

Data sheet

PVI DC 1I 1O 1MPP SPD1 MC4 10

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

www.weidmueller.com

Technical data

Dimensions and weights

Depth	52 mm	Depth (inches)	2.047 inch
Height	280 mm	Height (inches)	11.024 inch
Width	60 mm	Width (inches)	2.362 inch
Net weight	658 g		

Temperatures

Humidity	5 - 95% rel. humidity

Guarantee

Time interval	5 years

Electrical characteristics

Current per Maximum Power Point, max.	39 A	
Rated DC voltage	1,100 V	
Rated short-term current resistance	Rated current	48.75 A

Enclosure

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

General data

Installation location	Protected outdoor area (>1 km from sea)	Protection degree	IP65
Standards	IEC 61643-31, EN 50539-11		

Inputs

Amount of maximum power points (MPP)	1		
DC Input + & -	Wire connection	Type of connection	Stäubli MC4 connector
		Compatible cable crossection	TÜV 2 Pfg1169/08.07
		Wire cross-section, min.	4 mm²
		Wire cross-section, max.	6 mm²
Functional earth connector	Wire connection	Type of connection	Pre-assembled cable
		Flexible, max. H05(07) V-K	16 mm²
		w. wire end ferrule, DIN 46228 pt 1, max.	16 mm²
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		

Creation date March 12, 2025 5:00:10 PM CET

Data sheet

PVI DC 1I 1O 1MPP SPD1 MC4 10

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

www.weidmueller.com

Technical data

Outputs

DC Output + & -	Wire connection	Type of connection	Stäubli MC4 connector
		Wire cross-section, min.	4 mm²
		Wire cross-section, max.	6 mm²
Max. number of DC outputs	per Maximum Power Point 1 output		

Surge protection DC side

Discharge current I_n (8/20 µs)	20 kA	Discharge current, max. (8/20 µs)	40 kA
Lightning test current I_{imp} (10/350 µs)	5 kA	PV system voltage, max. U_{cpv}	1,100 V
Protection level U_p (+/- , -/PE , +/PE)	≤ 4.4 kV	Requirements class	Type I/II
Short-circuit curent I_{SCPV}	6,000 A	Standards	IEC 61643-31, EN 50539-11
Surge protection DC side	1000 V type I + II	Total discharge current I_{total} (8/20µs)	40 kA
Total discharge current I_{total} (10/350µs)	5 kA		

Classifications

ETIM 6.0	EC002928	ETIM 7.0	EC002928
ETIM 8.0	EC003857	ETIM 9.0	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		

Downloads

Approval/Certificate/Document of Conformity	CE Declaration PV Inline
Engineering Data	CAD data – STEP
User Documentation	Manual PV Inline
Catalogues	Catalogues in PDF-format

Data sheet

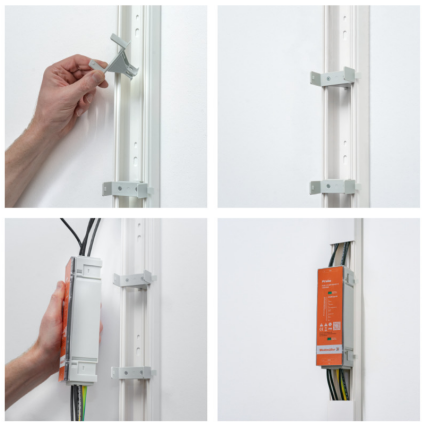
PVI DC 1I 1O 1MPP SPD1 MC4 10

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

www.weidmueller.com

Drawings











Data sheet

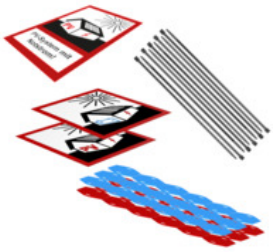
PVI DC 1I 1O 1MPP SPD1 MC4 10

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

www.weidmueller.com

Accessories

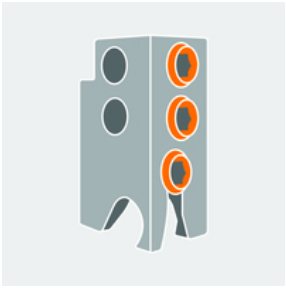
PV marking sets



General ordering data

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

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 mm², 0 A, Number of connections: 3, Number of levels: 1
GTIN (EAN)	4050118387438	
Qty.	10 pc(s).	