

PV 232S0F0C20V1O0TXPX15PUS

PV DC Combiner Box

Weidmüller, Inc

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Website: www.weidmuller.com



Example of PV DC Combiner Box. Picture may differ from product.



**Ready-to-connect generator combiner boxes.
The perfect solution for every customer's needs.**

This DC PV Combiner Box is used to bundle the output lines of individual or harnessed strings and connect them to an inverter or to a Level 2 Combiner Box.

Weidmüller's Level 1 combiner boxes are compliant with UL 1741:2021 Ed.3 and CSA C22.2 #290:19 Ed.2. They offer advanced surge protection devices, fused links, and switch disconnects to optimize the protection and operation of the system.

Additionally, designs can be customized according to application requirements offering customers unique flexibility and scalability with following benefits:

- * 32 string inputs
- * Fuse holder in string input (+/-) including fuse links
- * Surge protection devices for DC system voltage
- * String input with cable glands
- * Wall mounted with metal lugs
- * High reliability
- * Wide operating temperature range

General ordering data

Version	Photovoltaics, Assembled enclosure, Combiner Box, 1500V, with fuseholder and fuses, Surge protection I+II, Cable gland, for wall mounting, Switch disconnector, Portraid
Order No.	8000089220
Type	PV 232S0F0C20V1O0TXPX15PUS
GTIN (EAN)	4064675879084
Qty.	1 pc(s)

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Technical Data

Application Data

Operating ambient temperature range	-40 °C to +50 °C (-40 °F to +122 °F)
Intended installation location	protected outdoors (≤ 1 km from sea)
Conformity with norms	UL 1741 / C22.2 No 290:19
Altitude above sea level	up to 3000m
Region of installation	North America

Electrical Characteristics

Rated DC voltage (Un)	1500 VDC
Rated DC current per input (Isc)	12.8A at 50 °C ambient
Rated DC current per input (10h short-circuit at main output)	16 A (1.25 x Isc)
DC grounding system	floating positive and negative
Switch disconnect breaking & making capacity (acc. to IEC 60947-3)	500 A (DC PV-2 1500 V)
Circuit breaker breaking & making capacity (acc. to IEC 60947-2)	N/A
Contactors breaking & making capacity (acc. to IEC 60947-4-1)	N/A
Switch disconnect / circuit breaker / contactor handle location	external handle (outside enclosure)
Surge protection on DC ports	1500V DC, type I+II, I _{max} = 40 kA, U _p ≤ 5.0 kV- no aux. contact
Surge protection on monitoring supply ports	N/A
Surge protection on EIA RS-485 ports	N/A

Enclosure

Enclosure dimensions (H x W x D)	1056 x 852 x 350 mm
Material	glass-fiber reinforced polyester (GFRP)
Degree of protection (acc. to IEC 60529)	IP65 / NEMA 4X
Form factor	cabinet with hinged door(s)
Fixing system	stainless steel wall mount lugs

Inputs

Number of DC inputs (+ & - being one input)	32
Positive DC input wires to be connected to / cross-section (stranded)	screw connection / 2.5 - 35 mm ²
Negative DC input wires to be connected to / cross-section (stranded)	screw connection / 2.5 - 35 mm ²
Positive / negative DC input wires - outer diameter	5 - 10 mm
Fuses	fuse-links and fuse-disconnectors
Location of fuses	positive and negative inputs
Fuse-link rated current (In)	20 A
Fuse form factor	10 x 85 mm
Fuse-link time-current characteristic	gPV (EN 60269-6)

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Technical Data**Outputs**

Number of DC outputs (+ & – being one output)	1
DC output wires to be connected to / cross-section (stranded)	M12 bolt and nut connection / $\leq 400 \text{ mm}^2$
DC output wires outer diameter	30 - 38 mm

Grounding Connection

Grounding wire to be connected to / cross-section (stranded)	screw connection / 2.5 - 35 mm ²
Grounding wire outer diameter	6 - 12 mm

Others**Notes**

- 1) Switch disconnect DC-PV2 / UL listed.
- 2) IP2X cover included.
- 3) Combiner box must be installed in a shaded position (out of direct sunlight)