

PV 216S0F0C32V1O0T7P015PUS

PV DC Combiner Box

Weidmuller, Inc 821 Southlake Blvd. Richmond, Virginia 23236

Email: customerservice@weidmuller.com 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 strings and connect them to an inverter or to a Level 2 Combiner Box.

Weidmuller'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.

Integrated power monitoring (self-supplied from string voltage) allows to do the righty surveilance of the PV site to guarantee the best performance of the system. Additionally, designs can be customized according to application requirements offering customers unique flexibility and scalability with following benefits:

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



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. | 8000089216 |
| Туре | PV 216S0F0C32V100T7P015PUS |
| GTIN (EAN) | 4064675879077 |
| 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) | 20.5A at 50 °C ambient |
| Rated DC current per input (10h short-circuit at main output) | 25.6 A (1.25 x lsc) |
| 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 |
| Contactor 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, Imax = 40 kA, Up ≤ 5.0 kV with 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) | 16 | |
| 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) | 32 A | |
| Fuse form factor | 10/14 x 85 mm | |
| Fuse-link time-current characteristic | gPV (EN 60269-6) | |



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Technical Data

| 1 | |
|---|--|
| M12 bolt and nut connection / ≤ 400 mm² | |
| 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 |

| Transclinic 16i+ |
|--|
| self-powered (300 - 1500 VDC input PSU) |
| two-in-one (1% error full-scale) |
| yes (1% error full-scale) |
| yes (-20 °C to 80 °C) |
| yes (closed / open) via Transclinic's digital inputs |
| yes (healthy / information about end of lifetime) |
| 0.22 - 2.5 mm ² |
| 5 - 10 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)