

## PRO MAX 480W 48V 10A

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

[www.weidmueller.com](http://www.weidmueller.com)



PROmax offers diverse solutions for demanding automation.

Our high performance and durable PROmax switch-mode power supply units are designed for especially demanding requirements. PROmax reliably copes with continuous overload of up to 20% or short-term peak loads of 300% occurring with high control cabinet temperatures.

High boost capability and full power are also made possible in a wide temperature range. Our switch-mode power supply units can be used around the world and are also suitable for confined spaces thanks to their low width. Together with our uninterruptible DC USPs, the diode modules or CAP modules, you can create a power supply solution that is tailored to your requirements.

### General ordering data

|            |   |
|------------|---|
| Version    | Power supply, switch-mode power supply unit, 48 V |
| Order No.  | <a href="#">1478250000</a>                        |
| Type       | PRO MAX 480W 48V 10A                              |
| GTIN (EAN) | 4050118286069                                     |
| Qty.       | 1 items   |

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**Technical data**

**Approvals**

Approvals



|                           |                            |
|---------------------------|----------------------------|
| ROHS                      | Conform                    |
| UL File Number Search     | <a href="#">UL Website</a> |
| Certificate No. (cURus)   | E255651                    |
| Certificate no. (cULus)   | E258476                    |
| Certificate no. (cULusEX) | E470829                    |

**Dimensions and weights**

|            |        |                 |             |
|------------|--------|-----------------|-------------|
| Depth      | 150 mm | Depth (inches)  | 5.9055 inch |
| Height     | 130 mm | Height (inches) | 5.1181 inch |
| Width      | 90 mm  | Width (inches)  | 3.5433 inch |
| Net weight | 2000 g |                 |             |

**Temperatures**

|                                   |                           |                       |                |
|-----------------------------------|---------------------------|-----------------------|----------------|
| Storage temperature               | -40 °C...85 °C            | Operating temperature | -25 °C...70 °C |
| Humidity at operating temperature | 5...95 %, no condensation | Start-up              | ≥ -40 °C       |

**Environmental Product Compliance**

|                                      |                                      |
|--------------------------------------|--------------------------------------|
| RoHS Compliance Status               | Compliant with exemption             |
| RoHS Exemption (if applicable/known) | 7a, 7cl                              |
| REACH SVHC                           | Lead 7439-92-1                       |
| SCIP                                 | 6d8cdf22-8230-4af8-86c8-3558c716666d |

**Rated data UL**

|                         |         |
|-------------------------|---------|
| Certificate No. (cURus) | E255651 |
|-------------------------|---------|

**Input**

|  |  |       |
|--|--|-------|
| Connection system                                    | Screw connection   |       |
| AC input voltage range                               | 85...277 V AC  |       |
| Recommended back-up fuse                             | 16 A, char. B circuit breaker, 10 A, Char. C circuit breaker |       |
| Frequency range AC                                   | 45...65 Hz   |       |
| Rated input voltage                                  | 100...240 V AC   |       |
| Surge protection                                     | Varistor   |       |
| Input fuse (internal)                                | Yes  |       |
| DC input voltage range                               | 80...370 V DC  |       |
| Inrush current                                       | max. 15 A  |       |
| Current consumption in relation to the input voltage | Voltage type   | AC    |
|  | Input voltage  | 230 V |
|  | Input current  | 2.3 A |
|  | Voltage type   | DC    |
|  | Input voltage  | 120 V |
|  | Input current  | 4.8 A |
| Nominal power consumption                            | 516.1 VA   |       |

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### Output

|                                      |                           |                                    |                                |
|--------------------------------------|---------------------------|------------------------------------|--------------------------------|
| Output power                         | 480 W                     | Connection system                  | Screw connection               |
| Rated output voltage                 | 48 V DC $\pm$ 1 %         | Residual ripple, breaking spikes   | <50 mVss @ UNenn, Full Load    |
| Parallel connection option           | yes, max. 5               | Output voltage, max.               | 56 V                           |
| Output voltage, min.                 | 30 V                      | Output voltage, note               | (adjustable via potentiometer) |
| Nominal output current for Unom      | 10 A @ 60 °C              | Protection against inverse voltage | Yes                            |
| Continuous output current @ UNominal | 12 A @ 45°C, 7,5 A @ 70°C |                                    |                                |

### General data

|   |   |                      |     |               |       |                     |       |              |       |
|---|---|----------------------|-----|---------------|-------|---------------------|-------|--------------|-------|
| AC failure bridging time @ Inom                   | min. 20 ms  |                      |     |               |       |                     |       |              |       |
| Degree of efficiency                              | 93%   |                      |     |               |       |                     |       |              |       |
| Protection degree                                 | IP20  |                      |     |               |       |                     |       |              |       |
| Surge voltage category                            | III   |                      |     |               |       |                     |       |              |       |
| Status indication                                 | LED red/green and relay ( $\geq$ 21.6 V DC LED green, relay on/ $\leq$ 20.6 LED red, relay off)   |                      |     |               |       |                     |       |              |       |
| Mounting position, installation notice            | Horizontal on TS35 mounting rail. 50 mm of clearance at top & bottom for air circ. Can mount side by side with no space in between.   |                      |     |               |       |                     |       |              |       |
| Housing version                                   | Metal, corrosion resistant  |                      |     |               |       |                     |       |              |       |
| Protection against reverse voltages from the load | 58...65 V DC  |                      |     |               |       |                     |       |              |       |
| Current limiting                                  | > 120% IN   |                      |     |               |       |                     |       |              |       |
| Derating  | > 60°C / 75% @ 70°C   |                      |     |               |       |                     |       |              |       |
| Power factor                                      | <table border="1"> <tr> <td>Power factor typical</td> <td>0.9</td> </tr> <tr> <td>Input voltage</td> <td>230 V</td> </tr> <tr> <td>Ambient temperature</td> <td>25 °C</td> </tr> <tr> <td>Output power</td> <td>480 W</td> </tr> </table> | Power factor typical | 0.9 | Input voltage | 230 V | Ambient temperature | 25 °C | Output power | 480 W |
| Power factor typical                              | 0.9   |                      |     |               |       |                     |       |              |       |
| Input voltage                                     | 230 V   |                      |     |               |       |                     |       |              |       |
| Ambient temperature                               | 25 °C   |                      |     |               |       |                     |       |              |       |
| Output power                                      | 480 W   |                      |     |               |       |                     |       |              |       |
| Earth leakage current, max.                       | 3.5 mA  |                      |     |               |       |                     |       |              |       |
| Power loss, idling                                | 4.8 W   |                      |     |               |       |                     |       |              |       |
| Short-circuit protection                          | Yes   |                      |     |               |       |                     |       |              |       |
| Power loss, nominal load                          | 36.1 W  |                      |     |               |       |                     |       |              |       |

### EMC / shock / vibration

|                                    |  |   |         |
|------------------------------------|--|---|---------|
| Shock resistance IEC 60068-2-27    | 30 g in all directions   | Noise emission in accordance with EN55032 | Class B |
| Interference immunity test acc. to | EN 55024, EN 55032, IEC61000-3-2,-3, IEC61000-4-2,-3,-4,-5,-6,-8,-11 | Vibration resistance IEC 60068-2-6        | 2.3 g   |

### Insulation coordination

|                                  |                       |                                   |        |
|----------------------------------|-----------------------|-----------------------------------|--------|
| Surge voltage category           | III                   | Pollution severity                | 2      |
| Protection class                 | I, with PE connection | Insulation voltage, input/output  | 4 kV   |
| Insulation voltage input / earth | 3.5 kV                | Insulation voltage output / earth | 0.5 kV |

### Electrical safety (applied standards)

|  |                            |                          |  |
|--|----------------------------|--------------------------|--|
| Electrical machine equipment                       | Acc. to EN60204            | Safety extra-low voltage | SELV acc. to IEC 60950-1, PELV according to EN 60204-1 |
| Safety transformers for switch-mode power supplies | According to EN 61558-2-16 |                          |  |

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## Technical data

### Connection data (input)

|   |                      |   |                   |
|---|----------------------|---|-------------------|
| Connection system                         | Screw connection     | Number of terminals                                   | 3 for L/N/PE      |
| Screwdriver blade                         | 0.8 x 4.0, PZ 1      | Conductor cross-section, AWG/kcmil , max.             | 10 AWG            |
| Conductor cross-section, AWG/kcmil , min. | 26 AWG               | Wire connection cross section, flexible (input), max. | 4 mm <sup>2</sup> |
| Conductor cross-section, flexible , min.  | 0.22 mm <sup>2</sup> | Conductor cross-section, rigid , max.                 | 6 mm <sup>2</sup> |
| Conductor cross-section, rigid , min.     | 0.18 mm <sup>2</sup> | Tightening torque, min.                               | 0.5 Nm            |
| Tightening torque, max.                   | 0.6 Nm               |   |                   |

### Connection data (output)

|   |                   |   |                      |
|---|-------------------|---|----------------------|
| Connection system                         | Screw connection  | Number of terminals                       | 8 (++,--,11,13,14)   |
| Conductor cross-section, AWG/kcmil , max. | 10 AWG            | Conductor cross-section, AWG/kcmil , min. | 26 AWG               |
| Conductor cross-section, flexible , max.  | 4 mm <sup>2</sup> | Conductor cross-section, flexible , min.  | 0.22 mm <sup>2</sup> |
| Conductor cross-section, rigid , max.     | 6 mm <sup>2</sup> | Conductor cross-section, rigid , min.     | 0.18 mm <sup>2</sup> |
| Tightening torque, min.                   | 0.5 Nm            | Screwdriver blade                         | 0.8 x 4.0, PZ 1      |
| Tightening torque, max.                   | 0.6 Nm            |   |                      |

### Signalling

|                           |  |                  |     |
|---------------------------|--|------------------|-----|
| Status indication         | LED red/green and relay (≥21.6 V DC LED green, relay on/ ≤20.6 LED red, relay off) | Floating contact | Yes |
| Contact load (NO contact) | max. 30 V DC / 1 A   |                  |     |

### Classifications

|             |             |             |             |
|-------------|-------------|-------------|-------------|
| ETIM 8.0    | EC002540    | ETIM 9.0    | EC002540    |
| ETIM 10.0   | EC002540    | ECLASS 14.0 | 27-04-07-01 |
| ECLASS 15.0 | 27-04-07-01 |             |             |

**Drawings**

**Electric symbol**

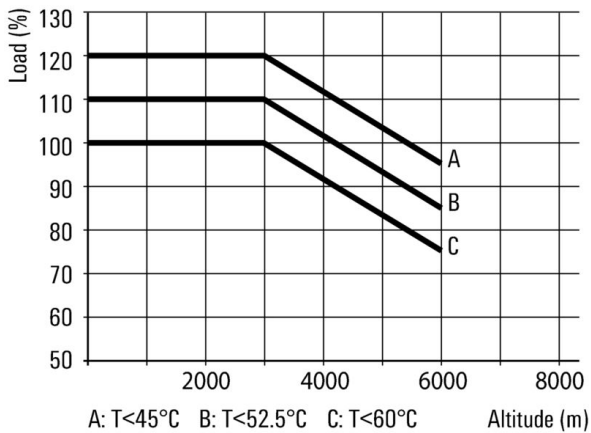


Pay attention to polarity of DC connection

**Derating curve**



**Derating curve**



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## Accessories

## Slotted screwdriver



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

## General ordering data

|            |                            |   |  |
|------------|----------------------------|---|--|
| Type       | SDIS SLIM 0.6X3.5X100      | Version   |  |
| Order No.  | <a href="#">2749610000</a> | Mounting tool, Blade width (B): 3.5 mm, Blade length: 100 mm, Blade thickness (A): 0.6 mm |  |
| GTIN (EAN) | 4050118896350              |   |  |
| Qty.       | 1 ST                       |   |  |

## Crosshead screwdriver, Pozidrive



VDE insulated screwdriver sets, for working on live parts up to 1000 V AC and 1500 V DC, DIN EN 60900. IEC 900. Each piece is "GS" safety tested. Blade made from fully hardened, high-alloy chromium-vanadium-molybdenum steel, gun-metal finish.

## General ordering data

|            |                            |   |  |
|------------|----------------------------|---|--|
| Type       | SDIK SLIM PZ1 X 80         | Version   |  |
| Order No.  | <a href="#">2749670000</a> | Screwdriver, Blade width (B): 1 mm, 80 mm, Blade thickness (A): 1 |  |
| GTIN (EAN) | 4050118896411              |   |  |
| Qty.       | 1 ST                       |   |  |

## End bracket



Weidmüller's range of products includes end brackets that guarantee a permanent, reliable mounting on the terminal rail and prevent sliding. Versions with and without screws are available. The end brackets include marking options, also for group markers, and also a test plug holder.

## General ordering data

|            |                            |   |  |
|------------|----------------------------|---|--|
| Type       | WEW 35/1 V0 GF SW          | Version   |  |
| Order No.  | <a href="#">1478990000</a> | End bracket, black, TS 35, V-0, Wemid, Width: 12 mm, 130 °C |  |
| GTIN (EAN) | 4050118286892              |   |  |
| Qty.       | 50 ST                      |   |  |

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|            |                            |         |  |
|------------|----------------------------|---------|--|
| Type       | WEW 35/2 V0 GF SW          | Version |  |
| Order No.  | <a href="#">1479000000</a> |         | End bracket, black, TS 35, V-0, Wemid, Width: 8 mm, 130 °C |
| GTIN (EAN) | 4050118286779              |         |  |
| Qty.       | 50 ST                      |         |  |