The new PROmax power supplies offer a wide range of robust solutions for demanding application requirements.

Designed for high performance and durability, PROmax switch-mode power supply units reliably provide continuous overload currents of up to 120%, or supply short-term peak loads up to 300% of nominal power.

Features include high output power boost capability and maximum power within a wide operating temperature range. PROmax switch-mode power supply units are suited for use in most global applications, and their compact size offers valuable space saving.

The PROmax power supplies, together with Weidmüller’s uninterruptible DC UPSs, diode modules, and/or CAP modules, offer users the ability to tailor solutions for their unique and demanding power requirements.

Features:
- Small housing: 32 mm – 140 mm widths
- MTBF: >500,000 hours
- Wide temperature range: -25°C … +70°C (Derating >60°C); startup at -40°C and above
- 16 variants offer application flexibility:
  - single-phase input: 24 V: 3…40 A, 5 V: 14 A, 12 V: 6…10 A, 48 V: 5…20 A
  - three-phase input: 24 V: 5…40 A
- Wide input ranges: 85…277 V AC/320 … 575 V AC, 80…370 V DC/450…800 V DC
- External monitoring with relay (Change over contact)
- Capable of parallel and series output connections
- Bi-color LED status indicator
- International approvals:
  - cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost
- Shock and vibration resistant
- Powerful output surge capability: 120% min. 1 min (permanent < +45°C), 150% min 4s, 300% min 2ms
- Installation manual available via QR code
connectPower
PROmax

**Technical data**

**General technical data**
- Current limiting
- Insulation voltage input ground
- Insulation voltage output ground
- Insulation voltage input/output
- Earth leakage current
- Series switching capability
- Ambient temp. operating / storage temperature / Start up
- Humidity at operating temperature
- Class of protection / Pollution degree
- MTBF
- Housing version
- Status indication

**EMC / shock / vibration**
- Noise immunity tests acc. to
- Resistance against vibration and shock

**Electrical safety (applied standards)**
- Electrical equipment of machines
- Safety transformers for switched-mode power units
- Machinery with electronic equipment
- Safety extra-low voltage
- Protective separation / protection against electrical shock
- Protection against dangerous shock currents

**Additional Information on Major North American Approvals**
- cULus Listed file E258476 according to UL508 and CSA C22.2 No. 107.1; cURus file E256561 according to UL60950-1 and CSA C22.2 No. 60950-1; cULus C1D2 file E470829 according to ISA12.12.01 and CSA C22.2 No. 213

---

**Derating curve**

Max. limiting average on state current [A]

<table>
<thead>
<tr>
<th>Typ</th>
<th>Temp</th>
<th>45°C</th>
<th>50°C</th>
<th>55°C</th>
<th>60°C</th>
<th>65°C</th>
<th>70°C</th>
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<tbody>
<tr>
<td>1ph 24 V / 3 A</td>
<td>3.6</td>
<td>3.3</td>
<td>3.2</td>
<td>3.0</td>
<td>2.8</td>
<td>2.6</td>
<td>2.2</td>
</tr>
<tr>
<td>1ph 24 V / 5 A</td>
<td>6.0</td>
<td>5.7</td>
<td>5.4</td>
<td>5.0</td>
<td>4.4</td>
<td>3.8</td>
<td>3.3</td>
</tr>
<tr>
<td>1ph 24 V / 7.5 A</td>
<td>9.0</td>
<td>8.5</td>
<td>8.0</td>
<td>7.5</td>
<td>6.6</td>
<td>5.6</td>
<td>5.0</td>
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<td>1ph 24 V / 10 A</td>
<td>12.0</td>
<td>11.3</td>
<td>10.7</td>
<td>10.0</td>
<td>8.8</td>
<td>7.5</td>
<td>7.0</td>
</tr>
<tr>
<td>1ph 24 V / 20 A</td>
<td>24.0</td>
<td>22.6</td>
<td>21.4</td>
<td>20.0</td>
<td>17.6</td>
<td>15.0</td>
<td>12.0</td>
</tr>
<tr>
<td>1ph 48 V / 5 A</td>
<td>6.0</td>
<td>5.7</td>
<td>5.4</td>
<td>5.0</td>
<td>4.4</td>
<td>3.8</td>
<td>3.3</td>
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<td>12.0</td>
<td>11.3</td>
<td>10.7</td>
<td>10.0</td>
<td>8.8</td>
<td>7.5</td>
<td>7.0</td>
</tr>
<tr>
<td>1ph 48 V / 20 A</td>
<td>24.0</td>
<td>22.6</td>
<td>21.4</td>
<td>20.0</td>
<td>17.6</td>
<td>15.0</td>
<td>12.0</td>
</tr>
<tr>
<td>3ph 24 V / 5 A</td>
<td>6.0</td>
<td>5.7</td>
<td>5.4</td>
<td>5.0</td>
<td>4.4</td>
<td>3.8</td>
<td>3.3</td>
</tr>
<tr>
<td>3ph 24 V / 10 A</td>
<td>12.0</td>
<td>11.3</td>
<td>10.7</td>
<td>10.0</td>
<td>8.8</td>
<td>7.5</td>
<td>7.0</td>
</tr>
<tr>
<td>3ph 24 V / 20 A</td>
<td>24.0</td>
<td>22.6</td>
<td>21.4</td>
<td>20.0</td>
<td>17.6</td>
<td>15.0</td>
<td>12.0</td>
</tr>
<tr>
<td>3ph 24 V / 40 A</td>
<td>48.0</td>
<td>45.2</td>
<td>42.8</td>
<td>40.0</td>
<td>35.2</td>
<td>30.0</td>
<td>25.0</td>
</tr>
</tbody>
</table>
### Technical data

#### Input
- Rated input voltage
- Input voltage range AC
- Frequency range AC
- DC input voltage range
- AC current consumption
- DC current consumption
- Input fuse (internal) / Inrush current
- Recommended back-up fuse

#### Output
- Rated output voltage
- Output voltage
- Residual ripple, breaking spikes
- Rated (nominal) output current @ \( U_{\text{Nom}} \)
- Continuous output current @ \( U_{\text{Rated}} \)
- Power boost @ \( U_{\text{Rated}} \)
- Pulsed current capacity @ \( U_{\text{Rated}} \)

#### General data
- Degree of efficiency
- Power factor (approx.)
- AC failure bridging time @ \( i_{\text{Nom}} \)
- Protection against reverse voltages from the load
- Parallel connection option
- Depth x width x height
- Weight

#### Approvals
- Approvals

#### Connection data
- Connection system
- Number of terminals
- Wire cross-section, rigid min/max mm²
- Wire cross-section, flexible min/max mm²
- Wire cross-section, AWG/kcmil min/max
- Screwdriver blade

#### Ordering data

#### Note:

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

### Accessories

- Metal Din-Rail Mounting Foot

---

**PRO MAX 72W 24V 3A**

- Input:
  - 100...240 V AC (widerange input)
  - 85...277 V AC
  - 45...65 Hz
  - 80...370 V DC
  - 1 A @ 230 V AC / 1.5 A @ 115 V AC
  - 1 A @ 370 V DC / 1.5 A @ 120 V DC
  - T3.15 A/250 V AC / max. 15 A
  - 24 V DC ± 1%
  - 22.5...29.5 V (adjustable via potentiometer)
  - < 60 mVSS @ \( U_{\text{Name}} \) Full Load
  - 3 A @ 60°C
  - 3.6 A @ 45°C, 2.25 A @ 70°C
  - 3.6 A (1 min), 4.5 A (4s)
  - 9 A (2ms)
  - 90%
  - > 0.90 @ 230 V AC
  - min. 20 ms
  - 30...35 V DC
  - yes, max. 5
  - 125 / 32 / 130 mm
  - 0.6 kg

- Output:
  - 24 V DC ± 1%
  - 22.5...29.5 V (adjustable via potentiometer)
  - < 50 mVSS @ \( U_{\text{Name}} \) Full Load
  - 5 A @ 60°C
  - 6.0 A @ 45°C, 3.75 A @ 70°C
  - 6 A (1 min), 7.5 A (4s)
  - 15 A (2ms)
  - 90%
  - > 0.90 @ 230 V AC
  - min. 20 ms
  - 30...35 V DC
  - yes, max. 5
  - 125 / 40 / 130 mm
  - 0.8 kg

- Approvals:
  - cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1),
  - Class 1 Div2, RCM, Gost

### Similar to illustration

**PRO MAX 120W 24V 5A**

- Input:
  - 100...240 V AC (widerange input)
  - 85...277 V AC
  - 45...65 Hz
  - 80...370 V DC
  - 1 A @ 230 V AC / 2.5 A @ 115 V AC
  - 1.5A @ 370 V DC / 2.5 A @ 120 V DC
  - T3.15 A/250 V AC / max. 15 A
  - 24 V DC ± 1%
  - 22.5...29.5 V (adjustable via potentiometer)
  - < 50 mVSS @ \( U_{\text{Name}} \) Full Load
  - 5 A @ 60°C
  - 6.0 A @ 45°C, 3.75 A @ 70°C
  - 6 A (1 min), 7.5 A (4s)
  - 15 A (2ms)
  - 90%
  - > 0.90 @ 230 V AC
  - min. 20 ms
  - 30...35 V DC
  - yes, max. 5
  - 125 / 40 / 130 mm
  - 0.8 kg

- Output:
  - 24 V DC ± 1%
  - 22.5...29.5 V (adjustable via potentiometer)
  - < 50 mVSS @ \( U_{\text{Name}} \) Full Load
  - 5 A @ 60°C
  - 6.0 A @ 45°C, 3.75 A @ 70°C
  - 6 A (1 min), 7.5 A (4s)
  - 15 A (2ms)
  - 90%
  - > 0.90 @ 230 V AC
  - min. 20 ms
  - 30...35 V DC
  - yes, max. 5
  - 125 / 40 / 130 mm
  - 0.8 kg

- Approvals:
  - cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1),
  - Class 1 Div2, RCM, Gost

### Similar to illustration
### Technical data

#### Input

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated input voltage</td>
<td>100...240 V AC (wide-range input)</td>
</tr>
<tr>
<td>Input voltage range AC</td>
<td>85...277 V AC</td>
</tr>
<tr>
<td>Frequency range AC</td>
<td>45...65 Hz</td>
</tr>
<tr>
<td>DC input voltage range</td>
<td>80...370 V DC</td>
</tr>
<tr>
<td>DC current consumption</td>
<td>1 A @ 230 V AC / 2 A @ 115 V AC</td>
</tr>
<tr>
<td>DC current consumption</td>
<td>1 A @ 370 V DC / 2 A @ 120 V DC</td>
</tr>
<tr>
<td>Input fuse (internal) / Inrush current</td>
<td>T3.15 A for 250 V AC / max. 15 A</td>
</tr>
<tr>
<td>Recommended back-up fuse</td>
<td>10 A, char. B circuit breaker, 6...8 A, char. C circuit breaker</td>
</tr>
</tbody>
</table>

#### Output

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated output voltage</td>
<td>24 V DC ± 1%</td>
</tr>
<tr>
<td>Voltage</td>
<td>22.5...29.5 V (adjustable via potentiometer)</td>
</tr>
<tr>
<td>Residual ripple, breaking spikes</td>
<td>&lt; 50 mVss @ Unom, Full Load</td>
</tr>
<tr>
<td>Rated (nominal) output current @ Uunom</td>
<td>7.5 A @ 60°C</td>
</tr>
<tr>
<td>Continuous output current @ Urated</td>
<td>9 A @ 45°C, 5.6 A @ 70°C</td>
</tr>
<tr>
<td>Power boost @ Urated</td>
<td>9 A (1 min), 11.25 A (4s)</td>
</tr>
<tr>
<td>Pulsed current capacity @ Urated</td>
<td>22.5 A (2ms)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of efficiency</td>
<td>91%</td>
</tr>
<tr>
<td>Power factor (approx.)</td>
<td>&gt; 0.95 @ 230 V AC</td>
</tr>
<tr>
<td>AC failure bridging time @ Inom</td>
<td>min. 20 ms</td>
</tr>
<tr>
<td>Protection against reverse voltages from the load</td>
<td>30...35 V DC</td>
</tr>
<tr>
<td>Parallel connection option</td>
<td>yes, max. 5</td>
</tr>
<tr>
<td>Depth x width x height</td>
<td>125 / 50 / 130 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.9 kg</td>
</tr>
</tbody>
</table>

#### General data

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
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</thead>
<tbody>
<tr>
<td>Approvals</td>
<td>cULus, cURus, TUV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost</td>
</tr>
<tr>
<td>Connection system</td>
<td>Screw connection</td>
</tr>
<tr>
<td>Schedule number</td>
<td>3 for L/N/PE 8 (++, --, 11, 13, 14)</td>
</tr>
<tr>
<td>Wire cross-section, rigid min/max mm²</td>
<td>0.18 / 6</td>
</tr>
<tr>
<td>Wire cross-section, flexible min/max mm²</td>
<td>0.22 / 4</td>
</tr>
<tr>
<td>Wire cross-section, AWG/kcmil min/max</td>
<td>26 / 12</td>
</tr>
<tr>
<td>Screwdriver blade</td>
<td>0.8 x 4.0, PZ 1</td>
</tr>
</tbody>
</table>

#### Ordering data

<table>
<thead>
<tr>
<th>Type</th>
<th>Qty.</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRO MAX 180W 24V 7.5A</td>
<td>1</td>
<td>1478120000</td>
</tr>
<tr>
<td>PRO MAX 240W 24V 10A</td>
<td>1</td>
<td>1478130000</td>
</tr>
</tbody>
</table>

#### Accessories

- The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.
- The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.
## Technical data

### Input

- **Rated input voltage**: 85...277 V AC
- **Frequency range AC**: 45...65 Hz
- **Input voltage range AC**: 80...370 V DC
- **Input voltage range DC**: 2.3 A @ 230 V AC / 4.8 A @ 115 V AC
- **Input fuse (internal) / Inrush current**: T3.15 A / 250 V AC / max. 15 A
- **Recommended back-up fuse**: 16 A, Char. B circuit breaker, 10 A, char. C circuit breaker

### Output

- **Rated output voltage**: 24 V DC ± 1%
- **Output voltage**: 22.5...29.5 V (adjustable via potentiometer)
- **Residual ripple, breaking spikes**: < 50 mVss @ UNenn, Full Load
- **Rated (nominal) output current @ UNom**: 20 A @ 60°C
- **Continuous output current @ URated**: 24 A @ 45°C, 15 A @ 70°C
- **Power boost @ URated**: 24 A (1 min), 30 A (4s)
- **Pulsed current capacity @ URated**: 60 A (2ms)
- **Degree of efficiency**: 91.5%
- **Power factor (approx.)**: > 0.95 @ 230 V AC
- **AC failure bridging time @ INom**: min. 20 ms
- **Protection against reverse voltages from the load**: yes, max. 3
- **Parallel connection option**: 150 / 90 / 130 mm
- **Weight**: 1.95 kg

### General data

- **Approvals**: cULus, cURus, TUV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost
- **Connection system**: Screw connection
- **Number of terminals**: Screw connection
- **Wire cross-section, rigid min/max mm²**: 0.18 / 6
- **Wire cross-section, flexible min/max mm²**: 0.22 / 4
- **Wire cross-section, AWG/kcmil min/max**: 26 / 10
- **Screwdriver blade**: 0.8 x 4.0, PZ 1

## Ordering data

<table>
<thead>
<tr>
<th>Type</th>
<th>Qty.</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRO MAX 480W 24V 20A</td>
<td>1</td>
<td>1478140000</td>
</tr>
</tbody>
</table>

**Note:** Type Qty. Part No.

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

## Accessories

- **Similar to illustration**

---

**ConnectPower PROmax**

PRO MAX 480W 24V 20A

PRO MAX 960W 24V 40A

---

**Type**

PRO MAX 480W 24V 20A

PRO MAX 960W 24V 40A

**Part No.**

1478140000

1478150000

**Note:** Type Qty. Part No.

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.
**connectPower PROmax**

**PRO MAX 70W 5V 14A**

**Technical data**

**Input**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated input voltage</td>
<td>100...240 V AC (wide-range input)</td>
</tr>
<tr>
<td>Input voltage range AC</td>
<td>85...277 V AC</td>
</tr>
<tr>
<td>Frequency range AC</td>
<td>45...65 Hz</td>
</tr>
<tr>
<td>DC input voltage range</td>
<td>80...370 V DC</td>
</tr>
<tr>
<td>AC current consumption</td>
<td>1 A @ 230 V AC / 1.5 A @ 115 V AC</td>
</tr>
<tr>
<td>DC current consumption</td>
<td>1 A @ 370 V DC / 1.5 A @ 120 V DC</td>
</tr>
<tr>
<td>Input fuse (internal) / Inrush current</td>
<td>T3.15 A / 250 V AC / max. 15 A</td>
</tr>
<tr>
<td>Recommended back-up fuse</td>
<td>6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker</td>
</tr>
</tbody>
</table>

**Output**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated output voltage</td>
<td>5 V DC</td>
</tr>
<tr>
<td>Output voltage</td>
<td>4.5...7 V (adjustable via potentiometer)</td>
</tr>
<tr>
<td>Residual ripple, breaking spikes</td>
<td>&lt; 50 mVss @ Unom, Full Load</td>
</tr>
<tr>
<td>AC failure bridging time @ Unom</td>
<td>14 A @ 60°C</td>
</tr>
<tr>
<td>Continuous output current @ Urated</td>
<td>16.8 A @ 45°C, 10.5 A @ 70°C</td>
</tr>
<tr>
<td>Power boost @ Urated</td>
<td>16.8 A (1 min), 21 A (4s)</td>
</tr>
<tr>
<td>Pulsed current capacity @ Urated</td>
<td>42 A (2ms)</td>
</tr>
</tbody>
</table>

**General data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Values</th>
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<tbody>
<tr>
<td>Degree of efficiency</td>
<td>86%</td>
</tr>
<tr>
<td>Power factor (approx.)</td>
<td>&gt; 0.90 @ 230 V AC</td>
</tr>
<tr>
<td>AC failure bridging time @ Unom</td>
<td>min. 20 ms</td>
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<tr>
<td>Protection against reverse voltages from the load</td>
<td>&gt; 7.5 V DC</td>
</tr>
<tr>
<td>Parallel connection option</td>
<td>yes, max. 5</td>
</tr>
<tr>
<td>Depth x width x height</td>
<td>125 / 32 / 130 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.6 kg</td>
</tr>
</tbody>
</table>

| Approvals                      | cULus, cURus, TUV, CE, CCC, SEMI F47, GL (EMC1), Class 1 Div2, RCM, Gost |

**Connection data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Values</th>
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<tbody>
<tr>
<td>Connection system</td>
<td>Screw connection</td>
</tr>
<tr>
<td>Number of terminals</td>
<td>Screw connection</td>
</tr>
<tr>
<td>Wire cross-section, rigid min/max</td>
<td>0.18 / 6 / 0.5 / 4</td>
</tr>
<tr>
<td>Wire cross-section, flexible min/max</td>
<td>26 / 18 / 26 / 12</td>
</tr>
<tr>
<td>Screwdriver blade</td>
<td>0.8 x 4.0, PZ 1, 0.6 x 3.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ordering data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>PRO MAX 70W 5V 14A</td>
</tr>
<tr>
<td>Qty.</td>
<td>1</td>
</tr>
<tr>
<td>Part No.</td>
<td>14782100000</td>
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</tbody>
</table>

**Accessories**

- Metal Din-Rail Mounting Foot

---

**PRO MAX 72W 12V 6A**

**Technical data**

**Input**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated input voltage</td>
<td>100...240 V AC (wide-range input)</td>
</tr>
<tr>
<td>Input voltage range AC</td>
<td>85...277 V AC</td>
</tr>
<tr>
<td>Frequency range AC</td>
<td>45...65 Hz</td>
</tr>
<tr>
<td>DC input voltage range</td>
<td>80...370 V DC</td>
</tr>
<tr>
<td>AC current consumption</td>
<td>1 A @ 230 V AC / 1.5 A @ 115 V AC</td>
</tr>
<tr>
<td>DC current consumption</td>
<td>1 A @ 370 V DC / 1.5 A @ 120 V DC</td>
</tr>
<tr>
<td>Input fuse (internal) / Inrush current</td>
<td>T3.15 A / 250 V AC / max. 15 A</td>
</tr>
<tr>
<td>Recommended back-up fuse</td>
<td>6 A, Char. B, circuit breaker, 3 - 5 A Char. C, circuit breaker</td>
</tr>
</tbody>
</table>

**Output**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated output voltage</td>
<td>12 V DC ± 1%</td>
</tr>
<tr>
<td>Output voltage</td>
<td>10...15 V (adjustable via potentiometer)</td>
</tr>
<tr>
<td>Residual ripple, breaking spikes</td>
<td>&lt; 50 mVss @ Unom, Full Load</td>
</tr>
<tr>
<td>AC failure bridging time @ Unom</td>
<td>6 A @ 60°C</td>
</tr>
<tr>
<td>Continuous output current @ Urated</td>
<td>7.2 A @ 45°C, 4.5 A @ 70°C</td>
</tr>
<tr>
<td>Power boost @ Urated</td>
<td>7.2 A (1 min), 9 A (4s)</td>
</tr>
<tr>
<td>Pulsed current capacity @ Urated</td>
<td>18 A (2ms)</td>
</tr>
</tbody>
</table>

**General data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Degree of efficiency</td>
<td>89%</td>
</tr>
<tr>
<td>Power factor (approx.)</td>
<td>&gt; 0.90 @ 230 V AC</td>
</tr>
<tr>
<td>AC failure bridging time @ Unom</td>
<td>min. 20 ms</td>
</tr>
<tr>
<td>Protection against reverse voltages from the load</td>
<td>&gt; 18 V DC</td>
</tr>
<tr>
<td>Parallel connection option</td>
<td>yes, max. 5</td>
</tr>
<tr>
<td>Depth x width x height</td>
<td>125 / 32 / 130 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>0.6 kg</td>
</tr>
</tbody>
</table>

| Approvals                      | cULus, cURus, TUV, CE, CCC, SEMI F47, GL (EMC1), Class 1 Div2, RCM, Gost |

**Connection data**

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Values</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection system</td>
<td>Screw connection</td>
</tr>
<tr>
<td>Number of terminals</td>
<td>Screw connection</td>
</tr>
<tr>
<td>Wire cross-section, rigid min/max</td>
<td>0.18 / 6 / 0.5 / 4</td>
</tr>
<tr>
<td>Wire cross-section, flexible min/max</td>
<td>26 / 18 / 26 / 12</td>
</tr>
<tr>
<td>Screwdriver blade</td>
<td>0.8 x 4.0, PZ 1, 0.6 x 3.5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ordering data</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>PRO MAX 72W 12V 6A</td>
</tr>
<tr>
<td>Qty.</td>
<td>1</td>
</tr>
<tr>
<td>Part No.</td>
<td>1478220000</td>
</tr>
</tbody>
</table>

**Accessories**

- Metal Din-Rail Mounting Foot
connectPower PROmax

**Technical data**

**Input**
- Rated input voltage
- Input voltage range AC
- Frequency range AC
- DC input voltage range
- AC current consumption
- DC current consumption
- Input fuse (internal) / Inrush current
- Recommended back-up fuse

**Output**
- Rated output voltage
- Output voltage
- Residual ripple, breaking spikes
- Rated (nominal) output current @ U_{Nom}
- Continuous output current @ U_{Rated}
- Power boost @ U_{Boost}
- Pulsed current capacity @ U_{Rated}

**General data**
- Degree of efficiency
- Power factor (approx.)
- AC failure bridging time @ I_{Nom}
- Protection against reverse voltages from the load
- Parallel connection option
- Depth x width x height
- Weight

**Approvals**
- Approvals

**Connection data**
- Connection system
- Number of terminals
- Wire cross-section, rigid min/max mm²
- Wire cross-section, flexible min/max mm²
- Wire cross-section, AWG/kcmil min/max
- Screwdriver blade

**Ordering data**

**Note:**

**Accessories**

Metal Din-Rail Mounting Foot

## Technical data

### Input
- **Rated input voltage**: 100...240 V AC (wide-range input)
- **Input voltage range AC**: 85...277 V AC
- **Frequency range AC**: 45...65 Hz
- **DC input voltage range**: 80...370 V DC
- **AC current consumption**: 2.3 A @ 230 V AC / 4.8 A @ 115 V AC
- **DC current consumption**: 1.5 A @ 370 V DC / 4.8 A @ 120 V DC
- **Input fuse (internal) / Inrush current**: T3.15 A / 250 V AC / max. 15 A
- **Recommended back-up fuse**: 16 A, Char. B circuit breaker, 10 A, Char. C circuit breaker

### Output
- **Rated output voltage**: 48 V DC ± 1%
- **Output voltage**: 30...56 V (adjustable via potentiometer)
- **Residual ripple, breaking spikes**: < 50 mVss @ U_{nom}, Full Load
- **Rated (nominal) output current @ U_{nom}**: 10 A @ 60°C
- **Continuous output current @ URated**: 12 A @ 45°C, 7.5 A @ 70°C
- **Pulsed current capacity @ URated**: 60 A (2ms)
- **Degree of efficiency**: 91.5%
- **Power factor (approx.)**: > 0.95 @ 230 V AC
- **AC failure bridging time @ INom**: min. 20 ms
- **Protection against reverse voltages from the load**: yes, max. 5
- **Parallel connection option**: 150 / 140 / 130 mm
- **Depth x width x height**: 3.4 kg
- **Weight**: cULus, cURus, TUV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost

### General data
- **Accessories**: Metal Din-Rail Mounting Foot

### Ordering data

<table>
<thead>
<tr>
<th>Type</th>
<th>Qty.</th>
<th>Part No.</th>
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</thead>
<tbody>
<tr>
<td>PRO MAX 480W 48V 10A</td>
<td>1</td>
<td>1478250000</td>
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**Note:** The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

## Connection data

<table>
<thead>
<tr>
<th>Description</th>
<th>Input</th>
<th>Output</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connection system</td>
<td>Screw connection</td>
<td>Screw connection</td>
</tr>
<tr>
<td>Number of terminals</td>
<td>3 for L/N/PE</td>
<td>8 [1,++,11,13,14]</td>
</tr>
<tr>
<td>Wire cross-section, rigid min/max</td>
<td>0.18 / 6</td>
<td>0.18 / 6</td>
</tr>
<tr>
<td>Wire cross-section, flexible min/max</td>
<td>0.22 / 4</td>
<td>0.22 / 4</td>
</tr>
<tr>
<td>Wire cross-section, AWG/kcmil min/max</td>
<td>26 / 10</td>
<td>26 / 10</td>
</tr>
<tr>
<td>Screwdriver blade</td>
<td>0.8 x 4, PZ 1</td>
<td>0.8 x 4, PZ 1</td>
</tr>
</tbody>
</table>

## Similar to illustration

- **PRO MAX 480W 48V 10A**: AC/DC Power Supply with Wide Input Range
- **PRO MAX 960W 48V 20A**: AC/DC Power Supply with Wide Input Range
**Technical data**

**Input**
- Rated input voltage
  - 24 V DC ± 1%
  - 22.5 … 25.5 V (adjustable via potentiometer)
- Input voltage range AC
  - 450 … 800 V DC (max. 500 V DC acc. to UL508)
  - 0.35 A @ 3*500 V AC / 0.4 A @ 3*400 V AC
- Frequency range AC
  - 45 … 65 Hz
- DC input voltage range
  - 0.35 A @ 800 V DC / 0.6 A @ 450 V DC
- AC current consumption
  - 0.22 A @ 45°C, 0.5 A @ 70°C
- DC current consumption
  - 6 A (1 min), 7.5 A (4s)
- Input fuse (internal) / Inrush current
  - 0.8 A @ 45°C, 3.75 A @ 70°C
- Recommended back-up fuse
  - 3.15 A / 250 V AC / max. 15 A
- Input voltage range
  - 3 x 400…3 x 500 V AC (wide-range input)
  - 3 x 320…3 x 575 V AC / 2 x 360…2 x 575 V AC
- Frequency range AC
  - 45…65 Hz
- DC input voltage range
  - 450…800 V DC (max. 500 V DC acc. to UL508)
- AC current consumption
  - 0.28 A @ 3*500 V AC / 0.3 A @ 3*400 V AC
- DC current consumption
  - 0.18 A @ 800 V DC / 0.3 A @ 450 V DC
- Input fuse (internal) / Inrush current
  - T3.15 A / 250 V AC / max. 15 A
- Recommended back-up fuse
  - 2…3 A, char. C circuit breaker
- Input voltage range
  - 3 x 400…3 x 500 V AC (wide-range input)
  - 3 x 320…3 x 575 V AC / 2 x 360…2 x 575 V AC
  - 45…65 Hz
  - 450…800 V DC (max. 500 V DC acc. to UL508)
- AC current consumption
  - 0.35 A @ 3*500 V AC / 0.4 A @ 3*400 V AC
- DC current consumption
  - 0.35 A @ 800 V DC / 0.6 A @ 450 V DC
- Input fuse (internal) / Inrush current
  - T3.15 A / 250 V AC / max. 15 A
- Recommended back-up fuse
  - 3 - 5 A Char. C, circuit breaker

**Output**
- Rated output voltage
  - 24 V DC ± 1%
  - 22.5 … 25.5 V (adjustable via potentiometer)
- Output voltage
  - < 50 mVss @ UNenn, Full Load
- Residual ripple, breaking spikes
  - 24 V DC ± 1%
- Rated (nominal) output current @ UNom
  - 5 A @ 60°C
- Continuous output current @ URated
  - 6.0 A @ 45°C, 3.75 A @ 70°C
- Power boost @ URated
  - 6 A (1 min), 7.5 A (4s)
- Pulsed current capacity @ URated
  - 15 A (2ms)
- Degree of efficiency
  - 90%
- Power factor (approx.)
  - > 0.50 @ 3*400 V AC
- AC failure bridging time @ INom
  - min. 20 ms
- Protection against reverse voltages from the load
  - 30…35 V DC
- Parallel connection option
  - yes, max. 5
- Depth x width x height
  - 125 / 40 / 130 mm
- Weight
  - 0.65 kg
- Approvals
  - cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost

**General data**
- Degree of efficiency
  - 91%
- Power factor (approx.)
  - > 0.75 @ 3*400 V AC
- AC failure bridging time @ INom
  - min. 20 ms
- Protection against reverse voltages from the load
  - 30…35 V DC
- Parallel connection option
  - yes, max. 5
- Depth x width x height
  - 125 / 60 / 130 mm
- Weight
  - 1.3 kg
- Approvals
  - cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost

**Connection data**
- Connection system
- Number of terminals
- Wire cross-section, rigid min/max
  - mm²
- Wire cross-section, flexible min/max
  - mm²
- Wire cross-section, AWG/kcmil min/max
- Screwdriver blade

**Ordering data**

**Note:**

**Accessories**

**connectPower**

**PROmax**

**PRO MAX3 120W 24V 5A**

**PRO MAX3 240W 24V 10A**

**Metal Din-Rail Mounting Foot**

**Similar to illustration**

**Type**

<table>
<thead>
<tr>
<th>Type</th>
<th>Qty.</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRO MAX3 120W 24V 5A</td>
<td>1</td>
<td>1478170000</td>
</tr>
</tbody>
</table>

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.

---

**Type**

<table>
<thead>
<tr>
<th>Type</th>
<th>Qty.</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>PRO MAX3 240W 24V 10A</td>
<td>1</td>
<td>1478180000</td>
</tr>
</tbody>
</table>

The internal varistor found in a switch-mode power supply does not replace the need for surge protection within a system.
**connectPower PROmax**

### Technical data

#### Input
- **Rated input voltage:** 3 x 400...3 x 500 V AC (wide-range input)
- **Input voltage range AC:** 3 x 320...3 x 575 V AC / 2 x 360...2 x 575 V AC
- **Frequency range AC:** 45...65 Hz
- **DC input voltage range:** 450...800 V DC (max. 500 V DC acc. to UL508)
- **AC current consumption:** 0.7 A @ 3*500 V AC / 0.85 A @ 3*400 V AC
- **DC current consumption:** 0.7 A @ 800 V DC / 1.2 A @ 450 V DC
- **Input fuse (internal) / Inrush current:** T3.15 A / 250 V AC / max. 15 A
- **Recommended back-up fuse:** 3 - 6 A Char. C, circuit breaker

#### Output
- **Rated output voltage:** 24 V DC ± 1%
- **Output voltage:** 22.5…29.5 V (adjustable via potentiometer)
- **Residual ripple, breaking spikes:** < 50 mVss @ UNenn, Full Load
- **Rated (nominal) output current @ UNom:** 20 A @ 60°C
- **Continuous output current @ URated:** 24 A @ 45°C, 15 A @ 70°C
- **Power boost @ URated:** 24 A (1 min), 30 A (4s)
- **Pulsed current capacity @ URated:** 60 A (2ms)
- **Degree of efficiency:** 91.5%
- **Power factor (approx.):** > 0.75 @ 3*400 V AC
- **AC failure bridging time @ INom:** min. 20 ms
- **Protection against reverse voltages from the load:** 30…35 V DC
- **Parallel connection option:** yes, max. 3
- **Depth x width x height:** 150 / 70 / 130 mm
- **Weight:** 1.3 kg
- **Approvals:** cULus, cURus, TÜV, CE, CCC, SEMI F47, GL (EMC1), Class1 Div2, RCM, Gost

#### Connection data
- **Connection system:** Screw connection
- **Number of terminals:** 4 for L1/L2/L3/PE
- **Wire cross-section, rigid min/max mm²:** 0.18 / 6, 0.5 / 16
- **Wire cross-section, flexible min/max mm²:** 0.22 / 4, 4 / 16
- **Wire cross-section, AWG/kcmil min/max:** 14 / 10, 22 / 8
- **Screwdriver blade:** 0.8 x 4.0, PZ 1 / 0.4 x 4.0, PZ 1

### Ordering data

#### Type
- **PRO MAX3 480W 24V 20A**
- **PRO MAX3 960W 24V 40A**

#### Note:

The internal varistor found in a switched-mode power supply does not replace the need for surge protection within a system.

### Accessories
- Metal Din-Rail Mounting Foot

---

**PRO MAX3 480W 24V 20A**

- Similar to illustration

---

**PRO MAX3 960W 24V 40A**

- Similar to illustration

---

**Type** | **Qty.** | **Part No.**
--- | --- | ---
PRO MAX3 480W 24V 20A | 20A | 1478190000
PRO MAX3 960W 24V 40A | 40A | 1478200000
**Technical data**

**Input**
- Rated input voltage / DC input voltage range
- Input current

**Output**
- Rated output voltage / Output voltage
- Rated (nominal) output current @ U_{Nom}
- Voltage monitoring / Floating contact
- Switching thresholds

**General data**
- Degree of efficiency
- Depth x width x height / Weight
- Ambient temperature (operational) / Storage temperature
- Humidity
- Protection degree / Class of protection / Pollution severity
- Insulation voltage
- MTBF
- Mounting position, installation notice

**EMC / shock / vibration**
- Noise emission acc. to EN50022
- Interference immunity test acc. to
- Resistance to vibration / Shock
- Electrical safety (applied standards)
- For use with electronic equipment
- Safety extra-low voltage
- Approvals

**Connection data**
- Wire connection method
- Number of terminals
- Wire cross-section, rigid min/max mm²
- Wire cross-section, flexible min/max mm²
- Wire cross-section, AWG/kcmil min/max

**Ordering data**
- Plastic clip-on foot

---

**PRO-M: diode, capacity and relay modules**

**CP M DM20**

24 V DC / 18…30 V DC
2 x 10 A or 1 x 20 A
24 V DC ± 1% / Input voltage - 0.7 V
20 A @ 60°C
24 A @ 45°C, 22.5 A @ 55°C, 15 A @ 70°C
Yes, In both inputs / Yes
21.6 V DC, relay is on for Power Good, 20.4 V DC, relay is off for Power Fail
> 97% @ 24 V input voltage
150 / 34 / 130 mm / 0.3 kg
-25°C…+70°C / -40°C…+85°C
5...95%, no condensation
IP 20 / III, with no ground connection, for SELV / 2
0.5 kV input/output housing
> 500,000 h acc. to IEC 1709 (SN29500)
Horizontal on TS35 DIN-rail. 50 mm clearance top & bottom for air circ. Can mount side by side with no space in between.
Class B
EN 61000-4-2 (ESD) | EN 61000-4-3 and EN 61000-4-8 (fields) | EN 61000-4-4 (burst) | EN 61000-4-5 (surge) | EN 61000-4-6 (conducted)
1 g according to EN50178 / 15 g in all directions
Acc. to EN60204
Acc. to EN50178 / VDE0180
SELV acc. to EN60950, PELV acc. to EN60950

**CP M DM40**

24 V DC / 18…30 V DC
2 x 20 A or 1 x 40 A
24 V DC ± 1% / Input voltage - 0.7 V
40 A @ 60°C
48 A @ 45°C, 45 A @ 55°C, 30 A @ 70°C
Yes, In both inputs / Yes
21.6 V DC, relay is on for Power Good, 20.4 V DC, relay is off for Power Fail
> 97% @ 24 V input voltage
150 / 60 / 130 mm / 0.6 kg
-25°C…+70°C / -40°C…+85°C
5...95%, no condensation
IP 20 / III, with no ground connection, for SELV / 2
0.5 kV input/output housing
> 500,000 h acc. to IEC 1709 (SN29500)
Horizontal on TS35 DIN-rail. 50 mm clearance top & bottom for air circ. Can mount side by side with no space in between.
Class B
EN 61000-4-2 (ESD) | EN 61000-4-3 and EN 61000-4-8 (fields) | EN 61000-4-4 (burst) | EN 61000-4-5 (surge) | EN 61000-4-6 (conducted)
1 g according to EN50178 / 15 g in all directions
Acc. to EN60204
Acc. to EN50178 / VDE0180
SELV acc. to EN60950, PELV acc. to EN60950

---

**Plastic clip-on foot**

**Type**
- CP M DM20
  - Qty.: 1
  - Part No.: 1222210000

**Type**
- CP M DM40
  - Qty.: 1
  - Part No.: 1222200000
**connectPower PRO-M** power supply unit

**PRO-M: diode, capacity and relay modules**

**Technical data**

**Input**
- Rated input voltage / DC input voltage range

**Output**
- Peak current output / Recovery time for the capacitor

**Switching thresholds**
- Floating contact

**General data**
- Depth x width x height / Weight
- Ambient temperature (operational) / Storage temperature
- Humidity
- Protection degree
- Class of protection
- Pollution severity
- Insulation voltage
- MTBF
- Mounting position, installation notice

**EMC / shock / vibration**
- Noise emission acc. to EN55022
- Interference immunity test acc. to

**Resistance to vibration / Shock**

**Electrical safety (applied standards)**
- Electrical machine equipment
- For use with electronic equipment
- Safety extra-low voltage

**Approvals**
- Approvals

**Connection data**
- Wire connection method
- Number of terminals
- Wire cross-section, rigid min/max mm²
- Wire cross-section, flexible min/max mm²
- Wire cross-section, AWG/kcmil min/max

**Note:**

**Ordering data**

<table>
<thead>
<tr>
<th>Type</th>
<th>Qty.</th>
<th>Part No.</th>
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</thead>
<tbody>
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<td>CP M CAP</td>
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</table>

**Fuse tripping**

<table>
<thead>
<tr>
<th>Conductor cross section</th>
<th>B6</th>
<th>B10</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.75 mm²</td>
<td>10 m</td>
<td></td>
</tr>
<tr>
<td>1.0 mm²</td>
<td>14 m</td>
<td>6 m</td>
</tr>
<tr>
<td>1.5 mm²</td>
<td>20 m</td>
<td>9 m</td>
</tr>
<tr>
<td>2.5 mm²</td>
<td>30 m</td>
<td>15 m</td>
</tr>
<tr>
<td>4 mm²</td>
<td>50 m</td>
<td>24 m</td>
</tr>
<tr>
<td>6 mm²</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Similar to illustration**

Pulse triggering for circuit breakers:
- with the Weidmüller capacitance module.
- The following conditions apply to the table entries:
  - Ambient temperature of 20°C
  - Inner resistance of the circuit breakers is taken into account
  - Half of the rated current flows to a neighbouring circuit before the short circuit is formed
  - DC-compatible circuit breakers: Siemens 5SY series

Note:

Type Qty. Part No.
--------- -------- ------------
CP M CAP 1 1222240000

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Subject to technical changes • 02/15 • LIT1426E