Single phase primary switched power supply

- Stabilised and adjustable output voltage
- Parallel operation
- Push-In terminals
- Panel installation on mounting rails
- DC OK Signalling

Can be combined with

- Type 8741
  Mass Flow Controller (MFC)/ Mass Flow Meter (MFM) for Gases
- Type 8905
  Online Analysis System
- Type 8640
  Customized Pneumatic Systems Solutions for the Processing Industries
- Type 8644
  Remote Process Actuation Control System AirLINE
- Type 8619
  multiCELL - Multi-channel and multi-function transmitter/controller

Type description

Efficient, primary switched mode power supply in slim plastic housing. A powerful and flexible option that's still light and compact. These power supply units are suitable for a highly diverse range of applications in solar, measurement and control technology as well as industrial and building automation. The output voltage can be easily set using the rotary potentiometer on the front of the housing. The DIN rail fastening method and push-in connection terminals enable fast and secure mounting.

Product variants described in the data sheet may differ from the product presentation and description.
Table of contents

1. General technical data ................................................................. 3
   1.1. Technical data for articles 772361, 772362, 772898 and 772698 ................................................................. 4

2. Dimensions .................................................................................. 5
   2.1. Article no. 772361 ........................................................................ 5
   2.2. Article no. 772362 ........................................................................ 5
   2.3. Article no. 772698 ........................................................................ 6
   2.4. Article no. 772898 ........................................................................ 6

3. Device/Process connections ............................................................. 7

4. Product installation ........................................................................ 7
   4.1. Installation notes ......................................................................... 7
   4.2. Assembly instruction .................................................................. 7

5. Ordering information ....................................................................... 8
   5.1. Bürkert eShop – Easy ordering and quick delivery ................................................................. 8
   5.2. Bürkert product filter ................................................................. 8
   5.3. Ordering chart ........................................................................... 8
1. General technical data

**Product properties**

| Dimensions | Detailed information can be found in chapter “2. Dimensions” on page 5 |
| Transient surge voltage protection (varistor) | Yes |
| Parallel operation | Yes |
| Serial operation | Yes |

**Signaling**

- Signaling ‘DC OK’ (LED lit permanently green) $U_{\text{LED}}>21.5$ V
- Terminals Signaling Push-In, max. 2.5 mm²

**Electrical data**

**Input data**

- Nominal Input Voltage AC 100…240 V
- Input Voltage range 85…264 V AC (120…372 V DC)
- Frequency range 47 Hz…63 Hz/0 Hz
- Inrush current limitation $<30$ A, NTC
- Terminal input Push-In, max. 2.5 mm²

**Output data**

- Nominal Output Voltage 24 V DC ± 1 %
- Resistance to reverse feed max. (nominal load) Max. 35 V DC
- Terminal Output Push-In, max. 2.5 mm²

**Approvals and certificates**

- Protection class acc. to IEC 60529 IP20
- Safety class acc. to IEC 60364-4-41 (DIN VDE 0100-410)
- CE acc. to 2004/108/EC and 2006/95/EC Yes
- DIN EN 60715-TH35-5/7.5
- DIN EN 60715-TH35-5/7.5

**Norms**

- Safety EN 61558-2-16, EN 60950-1
- EMC EN 6120-3, EN 60335-1
- Safety extra-low voltage (SELV/PELV) IEC 60364-4-41 (DIN VDE 0100-410)

**Environment and installation**

- Storage Temperature $-25 \, ^\circ C \ldots +85 \, ^\circ C$
- Required minimum spacing (over/under) 50 mm
- Convection Cooling Yes
## Type 1573

### 1.1. Technical data for articles 772361, 772362, 772898 and 772698

<table>
<thead>
<tr>
<th>Product properties</th>
<th>772361</th>
<th>772362</th>
<th>772898</th>
<th>772698</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dimensions (W x H x D)</td>
<td>22.5 x 90 x 97.5 mm</td>
<td>45 x 90 x 97.5 mm</td>
<td>52 x 90 x 111 mm</td>
<td>55 x 127 x 161 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>128 g</td>
<td>210 g</td>
<td>390 g</td>
<td>930 g</td>
</tr>
<tr>
<td>Signal contact DC OK (active high)</td>
<td>( U_{\text{in}} &gt; 21.5 ) V max. ( 20 ) mA @ 24 V DC</td>
<td>( U_{\text{in}} &gt; 21.5 ) V max. ( 20 ) mA @ 24 V DC</td>
<td>( U_{\text{in}} &gt; 21.5 ) V max. ( 20 ) mA @ 24 V DC</td>
<td>–</td>
</tr>
<tr>
<td>Signal output DC OK relay, contact closed</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>( U_{\text{out}} &gt; 21.5 ) max. 30 V/1 A</td>
</tr>
</tbody>
</table>

### Electrical data

<table>
<thead>
<tr>
<th>Input data</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage derating</td>
<td>-2.5 %/Vac &lt; 95 V AC</td>
<td>-2.5 %/Vac &lt; 95 V AC</td>
<td>-2.5 %/Vac &lt; 95 V AC</td>
<td>-2.5 %/Vac &lt; 100 V AC</td>
</tr>
<tr>
<td>Nominal input current (nominal load)</td>
<td>0.49 A (100 V AC) / 0.28 A (240 V AC)</td>
<td>0.82 A (100 V AC) / 0.48 A (240 V AC)</td>
<td>1.73 A (100 V AC) / 0.95 A (240 V AC)</td>
<td>2.74 A (100 V AC) / 1.25 A (230 V AC)</td>
</tr>
<tr>
<td>Turn-on time after applying the main voltage</td>
<td>2.3 Sec. (100 V AC) / 0.74 Sec. (230 V AC)</td>
<td>0.5 Sec. (100 V AC) / 0.27 Sec. (230 V AC)</td>
<td>0.5 Sec. (100 V AC) / 0.2 Sec. (230 V AC)</td>
<td>1.3 Sec. (100 V AC) / 0.25 Sec. (230 V AC)</td>
</tr>
<tr>
<td>Mains buffering (nominal load)</td>
<td>20/120 ms (100/230 V AC)</td>
<td>20/120 ms (100/230 V AC)</td>
<td>15/80 ms (100/230 V AC)</td>
<td>15/17 ms (100/230 V AC)</td>
</tr>
<tr>
<td>Recommended power circuit breaker (characteristic)</td>
<td>6 A, 10 A, 16 A (B,C)</td>
<td>6 A, 10 A, 16 A (B,C)</td>
<td>6 A, 10 A, 16 A (B,C)</td>
<td>10 A, 16 A (B,C)</td>
</tr>
</tbody>
</table>

### Output data

| | | | | |
| Output voltage range | 23...28.5 V DC | 23...28.5 V DC | 23...28.5 V DC (max. 24 V DC) | 23...28.5 V DC |
| Nominal output current | 1 A | 2 A | 3.8 A | 10 A |
| Output current limitation constant current | Typ. 1.25…1.4 A | Typ. 2.25…2.4 A | Typ. 3.8…3.2 A | Typ. 11…13 A |
| Power losses (Stand-by/ nominal load) | < 1 W/4 W (230 V AC) | < 1 W/6 W (230 V AC) | < 2.8 W/14 W (230 V AC) | 6.6 W/24.4 W (230 V AC) |
| Maximum power losses | 5 W (100 V AC/24 V/1 A) | 7 W (100 V AC/24 V/2 A) | 20 W (100 V AC/91 W) | 31.3 W (100 V AC/24 V/10 A) |
| Efficiency | Typ. 86 % | Typ. 89 % | Typ. 87 % | Typ. 91 % |
| Ripple/noise | Typ. 20 mV<sub>ss</sub> | Typ. 20 mV<sub>ss</sub> | Typ. 50 mV<sub>ss</sub> | |
| Protection against internal surge voltage (OVP) | Max. 39 V DC | Max. 37 V DC | Max. 40 V DC | Max. 40 V DC |

### Approvals and certificates

| UL | 508 listed | 508 listed | 508 listed | 60950 recognized (E213214), 508 listed (E219022) |
| UL 60950 - 1 | 60950 - 1 recognized | 60950 - 1 recognized | 60950 - 1 recognized | – |
| Class 2 Output (UL Limited Power Source, LPS) | EN 60950 - 1 | EN 60950 - 1 | EN 60950 - 1, UL 1310 | – |
| GL (in preparation) | GL (Germanischer Lloyd) classified, Environment category: C, EMC 2 |

### Environment and installation

<table>
<thead>
<tr>
<th>Ambient temperature</th>
<th>-25 °C to +70 °C device start at -40 °C type-tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>Derating</td>
<td>-3 % K &gt; +50 °C</td>
</tr>
<tr>
<td>Current rating at any mounting position</td>
<td>Max. 0.7 A</td>
</tr>
<tr>
<td>Humidity (no condensation)</td>
<td>5…96%</td>
</tr>
</tbody>
</table>
2. Dimensions

2.1. Article no. 772361

2.2. Article no. 772362
2.3. Article no. 772698

2.4. Article no. 772898
3. Device/Process connections

Assignment

<table>
<thead>
<tr>
<th>No.</th>
<th>Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DC Outputs (++-) and active ‘DC OK’ signal contact</td>
</tr>
<tr>
<td>2</td>
<td>LED Signalling ‘DC OK’</td>
</tr>
<tr>
<td>3</td>
<td>Setting of output voltage</td>
</tr>
<tr>
<td>4</td>
<td>AC Line input (L N) without earth(^1)</td>
</tr>
</tbody>
</table>

\(^1\) AC Line input (L, N PE) for Article no. 772698

4. Product installation

4.1. Installation notes

Note:
Always disconnect the equipment from the mains supply, before commencing installation or wiring.

Installation must be carried out according to the prevailing local conditions and safety regulations, national accident prevention regulations and the generally accepted rules of technology. This equipment is a component designed for installation into electrical systems and machines and fulfils the requirements of the low voltage guidelines (2006/95/EG).

The required minimum spacing to neighbouring components must be observed to guarantee the required cooling.

4.2. Assembly instruction

<table>
<thead>
<tr>
<th>No.</th>
<th>Element</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Tilt the unit slightly rearwards</td>
</tr>
<tr>
<td>2</td>
<td>Fit the unit over top hat rail</td>
</tr>
<tr>
<td>3</td>
<td>Slide it downward until it hits the stop</td>
</tr>
<tr>
<td>4</td>
<td>Press against the bottom front side for locking (click)</td>
</tr>
<tr>
<td>5</td>
<td>Shake the unit slightly to check the locking action</td>
</tr>
</tbody>
</table>
5. Ordering information

5.1. Bürkert eShop – Easy ordering and quick delivery

Bürkert eShop – Easy ordering and fast delivery

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5.2. Bürkert product filter

Bürkert product filter – Get quickly to the right product

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Try out our product filter

5.3. Ordering chart

<table>
<thead>
<tr>
<th>Nominal Current Output</th>
<th>Article no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 A</td>
<td>772361</td>
</tr>
<tr>
<td>2 A</td>
<td>772362</td>
</tr>
<tr>
<td>3.8 A</td>
<td>772898</td>
</tr>
<tr>
<td>10 A</td>
<td>772698</td>
</tr>
</tbody>
</table>
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