More Power: 30 A

SL30.300

- Input: 3 AC 400...500V
- Output: 24...28V / 720W
- 92.5% efficiency
- Ideal for parallel operation
- Simple fusing

### Input

<table>
<thead>
<tr>
<th>Input voltage</th>
<th>3 AC 400...500 V, ± 15 % 47-63 Hz, Suitable for IT power systems</th>
</tr>
</thead>
</table>
| Rated Tolerances | • Continuous operation 340-576 V AC resp. 450-820 V DC  
|                | • Short term (1 min) at 24 V/30 A 300-620 V AC resp. 420-890 V DC |
| Input current  | 3 x 2.0 A |
| Inrush current | < 17 A bei 576 V AC |
| Inrush current limiting | done with a fixed 47Ω resistor (not a thermistor) which is bridged after the unit is running, so losses are minimised. That means no reset time even at a warm-start. |
| Fuse loading  | < 2 A²s |

To be fused with a 3 x 10A, B-type ‘circuit-breaker’ switch based on the usual thermomagnetic overload sensing principle (used anyway to fuse the input lines; unit has no internal fuses).

### Harmanic current emissions (PFC)

acc. EN 61000-3-2

### Transient handling

Active transient filter incorporated, so transient resistance acc.to VDE 0160 / W2 (1560 V / 1.3 ms), for all load conditions.

### Hold up time

> 10 ms at 400 V AC, 24 V / 30 A

### Efficiency, Reliability etc.

- **Efficiency**
  - typ. 92.5 % (400 VAC, 24 V / 30 A)
- **Losses**
  - typ. 60 W (400 VAC, 24 V / 30 A)
- **MTBF**
  - 425,000 h @ 400 VAC, 360,000 h @ 480 VAC (Siemens norm SN 29500 (Release 07.97), 24 V/30 A, Tamb = +40 °C)
- **Life cycle (electrolytics)**
  - The unit exclusively uses longlife electrolytics, specified for <105°C (cf. ‘The SilverLine’, p.2).
  - High reliability and lifetime, as
    - only four aluminium electrolytics and
    - no small aluminium electrolytics are used.

### Construction / Mechanics

- **Housing dimensions and Weight**
  - W x H x D: 240 mm x 124 mm x 112 mm (+ DIN rail)
  - Free space for ventilation: above/below 70 mm recommended
  - Weight: 2.0 kg
- **Design advantages**
  - All connection blocks are easy to reach as mounted at the front panel.
  - PVC insulated cable can be used for all connections, as the connection blocks are mounted in the cooler area on the underside of the unit.

* For further information see data sheets „The SilverLine“, „SilverLine Family Branches“ and mechanics data sheet

### Order information

<table>
<thead>
<tr>
<th>Order number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SL30.300</td>
<td>Screw mounting set, two needed per unit</td>
</tr>
<tr>
<td>SL201</td>
<td></td>
</tr>
</tbody>
</table>
**Start / Overload Behaviour**

- **Startup delay**: typ. 0.2 s
- **Rise time**: ca. 20-80 ms, depending on load
- **Duration of switch-on attempts at**:
  - Initial application on mains: ca. 1.4 s
  - Subsequent attempts: ca. 0.5 s
- **Hiccup operation at** $V_{out} < \text{ca. 10 V}$
- **Duration between switch-on attempts**: ca. 1 s

Electronic current limiting, protects against overload and short circuit:
- $V_{out} < \text{ca. 10 V}$: Periodical switch-on attempts (hiccup-mode).
- $V_{out} > \text{ca. 10 V}$: The output current is continuous.

The V/I characteristic of the supply is straight.

Advantages of the switch-on/overload behaviour:
- Safer switch-on into highly non-linear loads with large starting currents
- Short-term overloads result in current limiting and not in an immediate shut-down.
- Parallel operation of several units possible.

Proper switch-on performance is obtained.

**Further Information**

For further information, especially about
- EMC
- Connections
- Safety, Approvals
- Mechanics und Mounting,
see page 2 of the „The SilverLine“ data sheet.

For detailed dimensions
see SilverLine mechanics data sheet SL30

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**Specifications valid for 3 x AC 400V input voltage, +25°C ambient temperature, and 5 min run-in time, unless otherwise stated. They are subject to change without prior notice.**

**Your partner in power supply:**

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**Output V/I characteristic (typ.)**

**Efficiency (typ.)**

**Hold-up time (min., at $V_{out} = 24V$)**

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PULS GmbH
Arabellastraße 15
D-81925 München
Tel.: +49 89 9278-0
Fax: +49 89 9278-199
www.puls-power.com
**Mechanics**

**SL30**

- Innovative DIN-Rail mount, unit holds even at vibration or lateral pressure
- Clearly arranged and user oriented
- Large, robust screw terminals
- Sealed metal housing
- Fine ventilating grid

**Connections**

- **Input/Output**
  - Solid 0.5-6 mm² / flexible 0.5-4 mm²
  - 30 A per output
- **Grid**
  - 9 mm distance between adjacent connectors
- **Design advantages:**
  - All connection blocks are easy to reach as mounted at the front panel.
  - Input and output are strictly apart from each other and so cannot be mixed up
  - PVC insulated cable can be used for all connections, no thermal protection is needed

**Order information**

<table>
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</thead>
<tbody>
<tr>
<td>SL30.100</td>
<td>Screw mounting set, two needed per unit</td>
</tr>
<tr>
<td>SL30.300</td>
<td></td>
</tr>
<tr>
<td>SLZ01</td>
<td></td>
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</tbody>
</table>
This 'mechanics data sheet' exclusively deals with the mechanical properties of the product. For further information (especially concerning electrical properties), please refer to the generic data sheet of the SL20 and to the basic data sheet „The SilverLine“ dealing with common features of all SilverLine units. This data sheet is subject to change without prior notice.

Your partner in power supply: