Air cooled DC power supply in switch mode technology, designed for use in electroplating in compact design.

Variable output range

The output range can be individually multiplied

Characteristic values

Linearity inaccuracy:
- for amperage < 1 %
- for voltage < 0.5 %

Ripple less than < 2 %

Efficiency typical > 85 %

Powerfactor $\cos \phi > 0.95$

Constant current and voltage control

Soft start function

Over temperature protection

Pulse operation optional

Mains supply: standard 3 x 400 V +/- 10 % / 50-60 Hz

(other voltages on request)

Cooling

Air cooled, air consumption max. 2000 m³/h

Ambient temperature 35°C (other on request)

Design

Compact Rittal TS cabinet; powder coated: IP20

Powder coated, RAL 7035

DC connector via DC output bus bars in the top of the cabinet

<table>
<thead>
<tr>
<th>Values</th>
<th>Standard sizes – DC output¹</th>
<th>Other sizes on request</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC current</td>
<td>5000 A</td>
<td>4000 A</td>
</tr>
<tr>
<td>DC voltage</td>
<td>4 V</td>
<td>5 V</td>
</tr>
<tr>
<td></td>
<td>6 V</td>
<td>8 V</td>
</tr>
<tr>
<td></td>
<td>10 V</td>
<td>12 V</td>
</tr>
<tr>
<td></td>
<td>15 V</td>
<td>18 V</td>
</tr>
<tr>
<td>Mains supply</td>
<td>3 x 400V AC</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 300 kg</td>
<td></td>
</tr>
</tbody>
</table>

¹ other sizes on request

EMV: EN55011 class A, group 1; EN61000-6-4 and EN61000-6-2;
CE-conformity /EN50178 - low voltage guide line
**Control unit pe280**

*for the controlling of DC power supplies of*

- Designed for electroplating applications
- Large 3-line LCD-display, keypads for easy programming/selection
- Current and voltage infinitely adjustable by UP / DOWN buttons
- Current and voltage preset
- Ampere-hour counter (totalizer)
- Protection grade: IP54
- Ambient temperature max. 40°C

**Optional available functions**

- Preset counter, dosage counter *
- Ramp function (start / stop ramp)
- Timer function for ON / OFF *
- Voltage / current alarm *
- Operating hours counter
- Chopper timer (pulse-capable rectifier type requested)
- Pole changer function (mechanical / electronic) *
- Programmable DC steps (14 individual steps) *
- Extern ON
- *Indication / alarm output

*Control via: RS485, PROFIBUS, TCP/IP (other on request)*

---

**Standard dimensions**

**Picture:** Cooling air outlet and DC output bus bars (example: 3000A) in the top of the cabinet