DC power supply in switch mode technology, designed for use in electroplating.

**Characteristic values**

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

- **Ripple:** less than < 1 %

- **Efficiency:** typical > 85 %

- **Powerfactor:** cos φ 0.95

- **Constant current and voltage control**

- **Soft start function**

- **Microprocessor controlled regulation**

- **Mains supply:** standard 3 x 400 V +/-10% / 50-60 Hz without N (other voltages on request)

**Cooling**

- Water cooled, over temperature protected
- Ambient temperature 5° – 40°C
- **Cooling water consumption:** min. 10 l/per minute

**Design**

- **Protection grade:** IP53

- **Anodized aluminium front panel**

- **DC connection in back panel**

- **Water connections:** ½ inch thread or bayonet connector (cooling: brass / copper pipes)

- **Operation parallel and serial (DC output) of up to 30 units possible**

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### Values

<table>
<thead>
<tr>
<th>DC current</th>
<th>2000 A</th>
<th>1000 A</th>
<th>40 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC voltage</td>
<td>6 V</td>
<td>10 V</td>
<td>12 V</td>
</tr>
<tr>
<td></td>
<td>15 V</td>
<td>18 V</td>
<td>20 V</td>
</tr>
<tr>
<td></td>
<td>24 V</td>
<td>30 V</td>
<td>1000 V</td>
</tr>
<tr>
<td>Mains supply</td>
<td>3 x 400 V AC</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 105–125 kg</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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**DC voltage:**

- max: 40000 Watts

**DC current:**

- max: 2000 A (at 20V)

**DC voltage:**

- max: 1000V (at 40A)

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**Power factor:** cos φ 0.95

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**EMV:** EN55011 class A, group 1 ; EN61000-6-4 and EN61000-6-2;

**CE-conformity:** EN50178 - low voltage guide line

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Rheinstr. 4 | Germany | Fax +49 7641 93500-999 | info@plating.de**
DC POWER SUPPLY

POWER STATION pe4206

Control

Standard: peRB-interface
Optional: external control via analog signals, also with integrated isolation amplifier
Signals: 0-10V, 0-1V, 4-20mA, 0-20mA (other on request)

Control unit pe280 for the controlling of DC power supplies of the series POWER STATION pe4206

Designed for electroplating applications
Large 3-line LCD-display, polycarbonate-keypad for easy operation
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)

DC output bus bars

Cooling water specification

For the water cooling system, city water with the following specifications should be used:

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH Value</td>
<td>7.0 - 8.0 und TOC &lt; 1,5 mg/l</td>
</tr>
<tr>
<td>Hardness</td>
<td>&lt;=1,3 mmol/l (&lt;=7°dH)</td>
</tr>
<tr>
<td>Chloride</td>
<td>&lt;=100 mg/l</td>
</tr>
<tr>
<td>Inlet temperature</td>
<td>18-26°C</td>
</tr>
<tr>
<td>Sulfate</td>
<td>&lt; 240 mg/l</td>
</tr>
<tr>
<td>Nitraten</td>
<td>&lt; 50 mg/l</td>
</tr>
<tr>
<td>Sodium</td>
<td>&lt; 150 mg/l</td>
</tr>
<tr>
<td>Water pressure</td>
<td>&gt; 2-5 bar</td>
</tr>
</tbody>
</table>

To operate this rectifier, and to keep the specified values of the cooling water, a closed cooling system is recommended.

Technical equipment, design and features: subject to change! For further information please contact plating electronic GmbH.

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Pfad: Produkte/Geräte/19-Zoll-Gleichrichter/pe4206/Datenblätter; Datei: power-station-pe4206_en; Version: 2.00.0002; Eingeführtes Dokument