DC POWER SUPPLY

POWER STATION pe3000-6

| Output power: | max. 24000 Watt |
| DC current: | max. 2000A (at 12V) |
| DC voltage: | max. 1000V (at 24A) |

Typical applications:
- Laboratory plating lines
- Precious metal plating
- Reel-to-reel plating
- PCB lines
- Manual plating lines

DC power supply with switch mode technology, designed for use in electroplating and/or for installation in a cabinet.

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
- Over temperature protection
- Pulse operation optional
- Mains supply: standard 3 x 400 V +/- 10 % / 50-60 Hz without N (other voltages on request)

Cooling

- Optimized cooling air guiding, air consumption
  - up to 15000W max. 540m³/h
  - up to 24000W max. 800m³/h
- Cooling air outlet at the air grids (turned air flow on request)
- Ambient temperature 35°C (other on request)

Design

- Stainless steel casing, optional coated, protection grade IP20
- DC connection via screw terminals or tin plated copper bus bars
- High voltage proof DC terminals (above 60 V)

EMV: EN55011 class A, group 1; EN61000-6-4 and EN61000-6-2;
CE-conformity IEN50178 - low voltage guide line

<table>
<thead>
<tr>
<th>Values</th>
<th>Standard sizes – DC output</th>
<th>other sizes on request</th>
</tr>
</thead>
<tbody>
<tr>
<td>DC current</td>
<td>2000 A</td>
<td>1200 A</td>
</tr>
<tr>
<td>DC voltage</td>
<td>6 V</td>
<td>10 V</td>
</tr>
<tr>
<td>Mains supply</td>
<td>3 x 400 V AC</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 45 kg</td>
<td></td>
</tr>
</tbody>
</table>

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DC POWER SUPPLY

POWER STATION pe3000-6

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
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)

DC output bus bars

Tin-coated copper bars
Size, location and design of the DC output bus bars may differ from the standard

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

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