

Device **DC power supply in stand-alone cabinet**

Type **POWER STATION pe5410-W**

Output power **110kW; max. 5000A; max. 1000V**



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DC outputs, examples: 22V / 5000A; 200V / 500A



Cabinet design:

- Digital controlled power stages
- Supply input at the bottom of the cabinet
- Cooling water connections inside the plinth or in the back panel of the cabinet
- DC output bus bars:
 - low voltage outputs on the top or in the back panel of the cabinet
 - high voltage outputs inside the cabinet
- Main switch, fuses and sub distribution optional in separate cabinet
- Dimensions: 400 x 2200 x 600 (W x H x D, incl. plinth)
- Weight: max. 400kg

Picture (example): 22V / 3000A



Picture: back side view, 3 cabinets mounted together

Features:

- Regulation error < 1%
- Ripple < 1%
- Efficiency > 85%
- Max. environmental temperature 40°C
- Supply voltage: 3 x 400V +/-10% / 50–60Hz without N (other voltages on request)
- Steel casing, coated RAL7035 (Rittal TS)
- Constant current and constant voltage regulation
- Designed for use in plating environment
- Water cooled
- Integrated soft start function
- Protecting grade IP54
- Several cabinets can be joined (DC output wired up in parallel or serial) to increase output current or voltage



**Minimal space requirement:
110kW at 0.24m²**



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

plating electronic GmbH – Marie-Curie-Straße 6 – D-79211 Denzlingen – Tel.: +49(0)7666-9009-0 Fax +49(0)7666-9009-44
Internet: <http://www.plating.de> E-mail: info@plating.de

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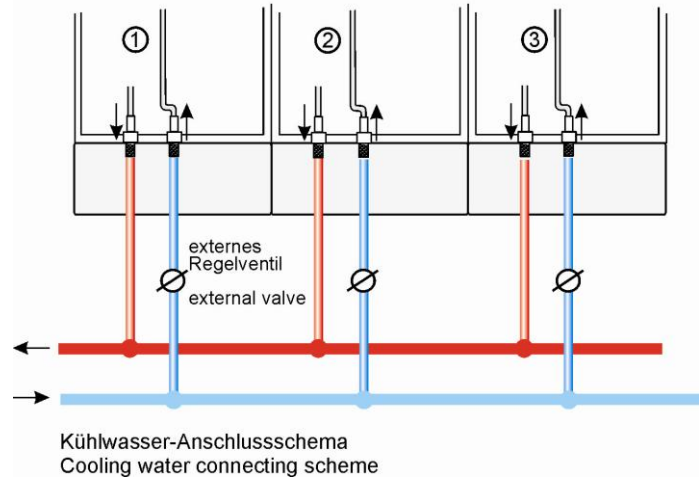
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Optional available in additional cabinet:

- Main switch, fuses, control components and mains sub distribution
- Interfaces: TCP/IP, Profibus DP, CAN, RS485

Options:

- Control unit pe280
- Ah-totalizer
- Preset counter with switch-off function and audible alarm
- Dosing counter
- Timer / multimer
- External control via isolation amplifier
- Controlling by all established BUS interfaces
- External motor driven pole changer stations



Kühlwasser-Anschlusschema
Cooling water connecting scheme

Cooling water consumption of one cabinet: max. 15l / minute

Water inlet temperature: 18 to 26°C
Water outlet temperature: approx. 40°C

Controlling:



Picture to the left:
Programmable control unit pe280 in wall mounting casing or cabinet door mounted, large LCD-display

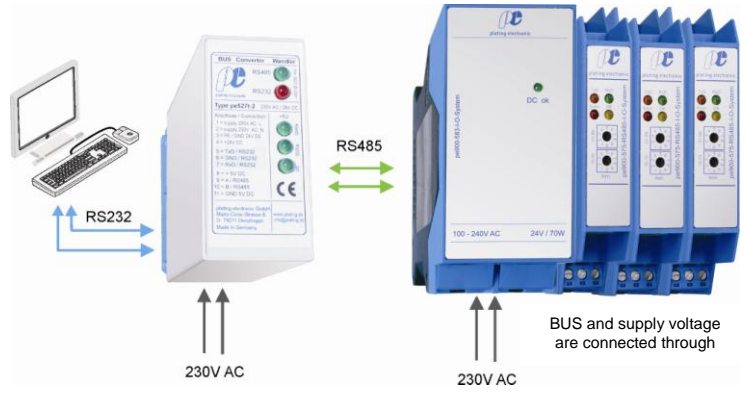
Picture to the right:
PROFIBUS-gateway with serial output type RS485-peRB and switch (port extension box)



One control unit pe280 is able to control up to 15 DC cabinets individually

Picture down to the right:

Controlling of several DC cabinets via PC software, with interface converter pe527 (RS232 / RS485) and RS485-bus units type pe575 for the controlling of analog DC power supplies, integrated supply unit



BUS and supply voltage are connected through