

Output power:	max.	80kW
DC current:	max.	5000A (at 15V)
DC voltage:	max.	1000V (at 80A)

Typical applications:	
Chrome plating	Barrel plating
Anodizing/Aluminium colouring	Rack plating

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



POWER STATION pe5110, front view

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 $\cos \varphi$ 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. 2000m³/h

Ambient temperature 35°C (other on request)

Design

Compact Rittal TS cabinet; powder coated: IP20

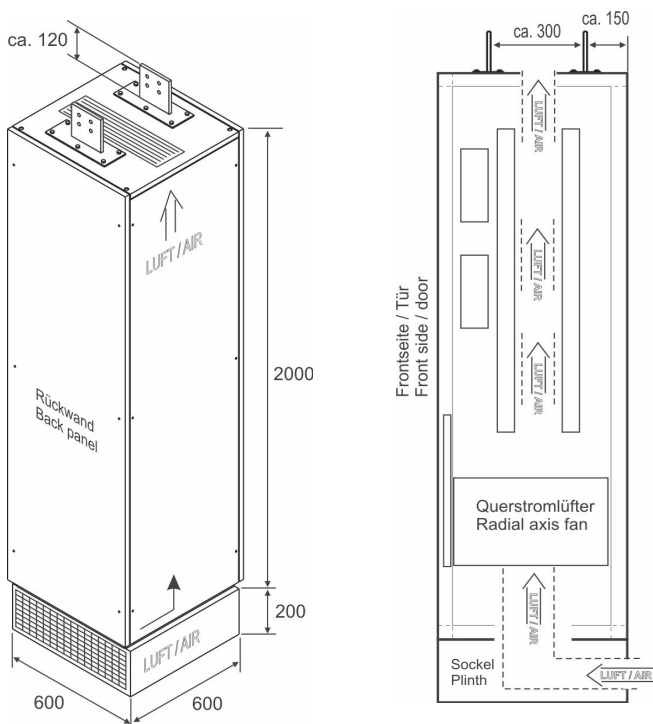
Powder coated, RAL 7035

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

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

Values	Standard sizes – DC output ¹							other sizes on request				
	5000 A							4000 A	3500 A	3000 A	2500 A	80 A
DC current	5000 A							4000 A	3500 A	3000 A	2500 A	80 A
DC voltage	4 V	5 V	6 V	8 V	10 V	12 V	15 V	18 V	20 V	24 V	30 V	1000 V
Mains supply	3 x 400V AC											
Weight	approx. 300 kg											

Standard dimensions



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

Control

peRB interface

Analog signals Iset, Uset, Iact, Uact = 0-10 V

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)

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

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