

**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. 2000m<sup>3</sup>/h

Ambient temperature 35°C (other on request)

### Design

Compact Rittal TS cabinet; powder coated: IP20

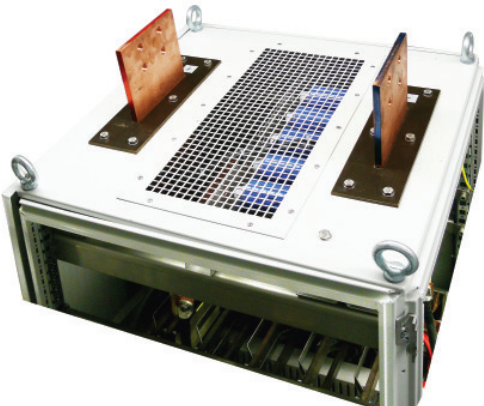
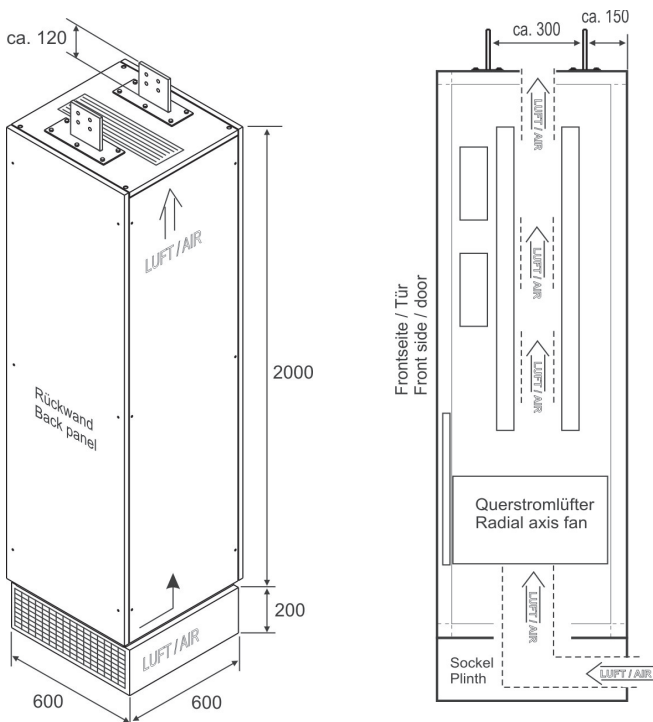
Powder coated, RAL 7035

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 <sup>1</sup>							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)