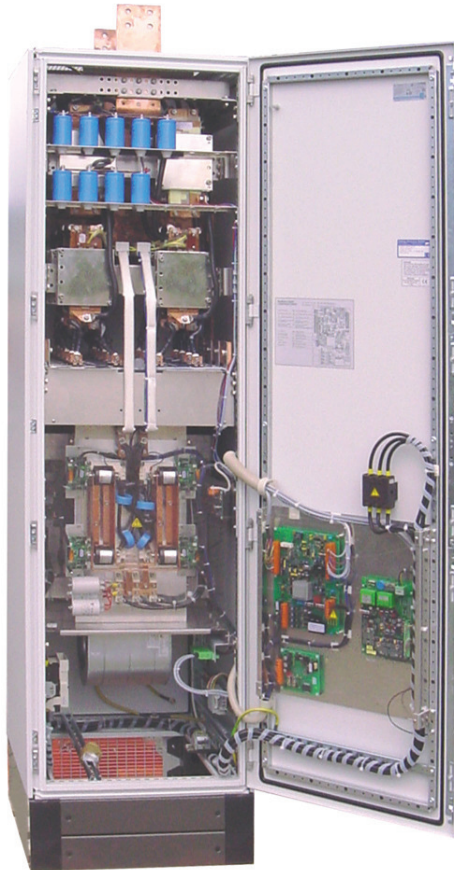


## POWER STATION pe5010

<b>Output power:</b>	10 - 80 kW	<b>Typical applications:</b>	
<b>DC current:</b>	80 - 5000 A (max. 5000 A / 15 V)	Chrome plating	Barrel plating
<b>DC voltage:</b>	4 - 30 V (max. 1000 V / 80 A)	Anodizing/Aluminium colouring	Rack plating

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



POWER STATION pe5010, 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

Internal shunt with 60 mV at  $I_{nenn}$

Pulse operation optional

Mains supply: standard 3 x 400 V +/- 10 % / 50-60 Hz  
(other voltages on request)

### Cooling

Air cooled, air consumption max. 1080m<sup>3</sup>/h

Ambient temperature 35°C (other on request)

### Design

Compact Rittal TS cabinet; protection grade: IP20

Powder coated RAL 7035

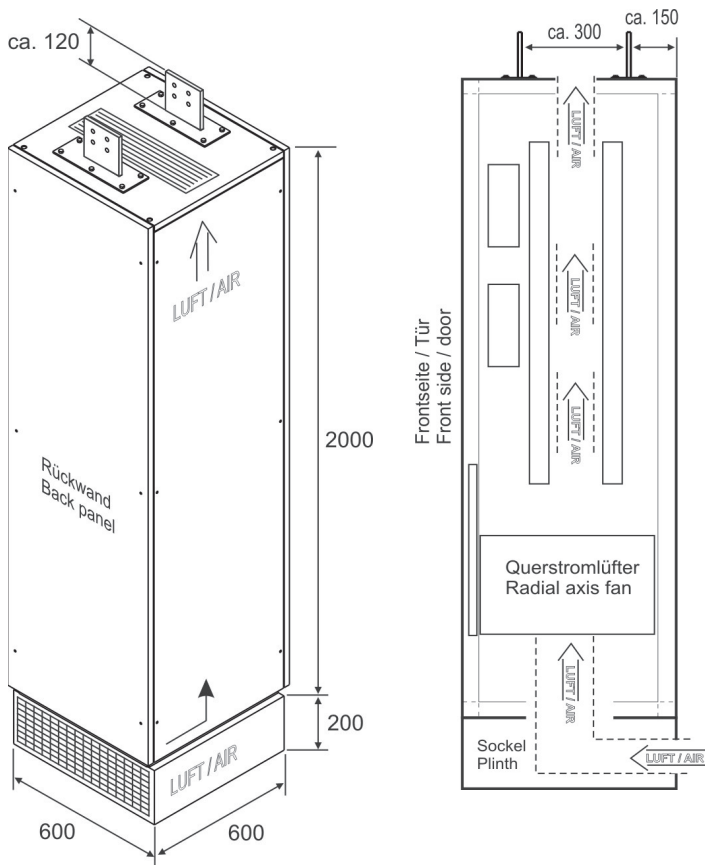
DC connector via DC output bus bars in the top of the cabinet

Mains power switch, fuses and load separator integrated

EMV: EN50011 class A, group B ; EN61000-6-4 and EN61000-6-2;  
CE-conformity low voltage guide line: EN50178

Values	Standard sizes – DC output <sup>1</sup>							<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



### Control

peRB interface

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

### Control optional available

Analog signals galvanically isolated via isolation amplifier:  
0-10V, 4-20mA, 0-20mA (other on request), X4-terminal

### Control unit pe280 for the controlling of DC power supplies of the series POWER STATION pe5010

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)

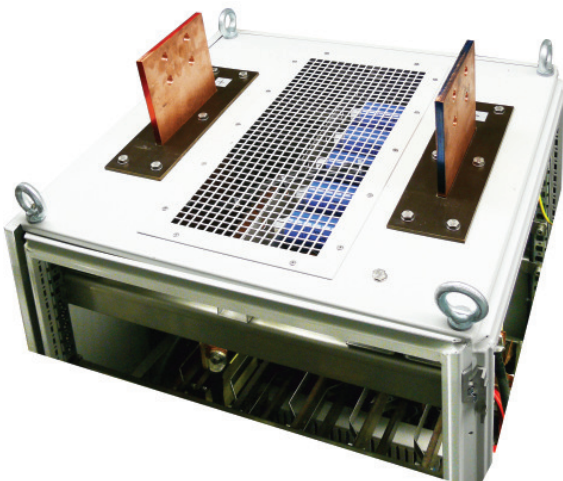
Pole changer function (mechanical / electronic) \*

Programmable DC steps (14 individual steps) \*

Extern ON

\* Indication / alarm output

Control via: RS485, PROFIBUS, TCP/IP (other on request)



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

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