

Output power:	10 - 80 kW	Typical applications:	
DC current:	80 - 5000 A (max. 5000 A / 15 V)	Chrome plating	Barrel plating
DC voltage:	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.

Variable output range

the output range can be individually multiplied



POWER STATION pe5110, front view

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. 1080m³/h

Ambient temperature 35°C (other on request)

Design

Compact Rittal TS cabinet; powder coated: IP20

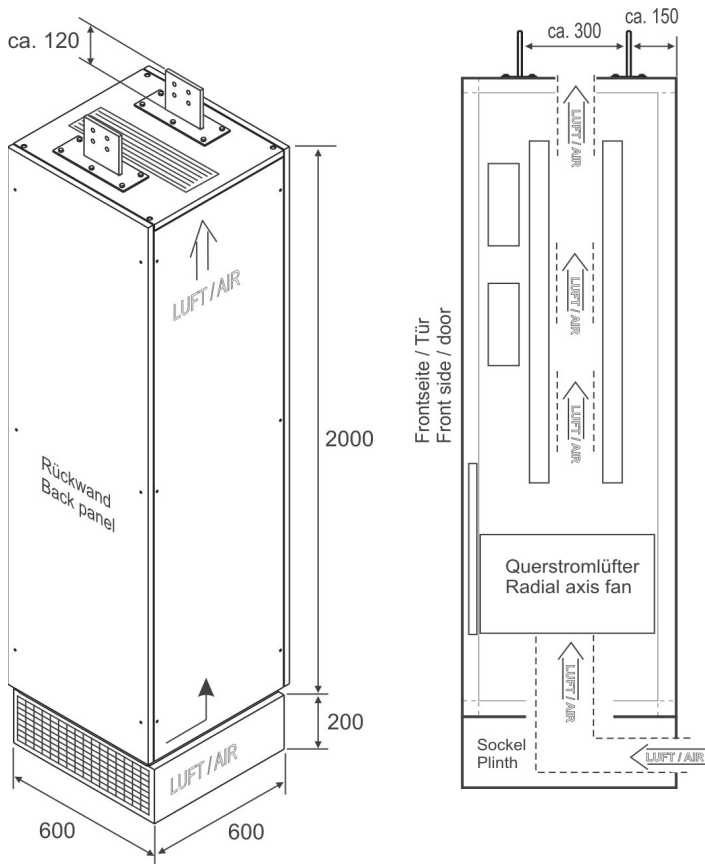
Powder coated, RAL 7035

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

EMV: EN5011 class A, group B ; EN61000-6-4 and EN61000-6-2;
CE-conformity low voltage guide line: EN50178

Values	Standard sizes – DC output ¹												other sizes on request		
	5000 A							4000 A	3500 A	3000 A	2500 A	80 A			
DC current															
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 pe5110

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)

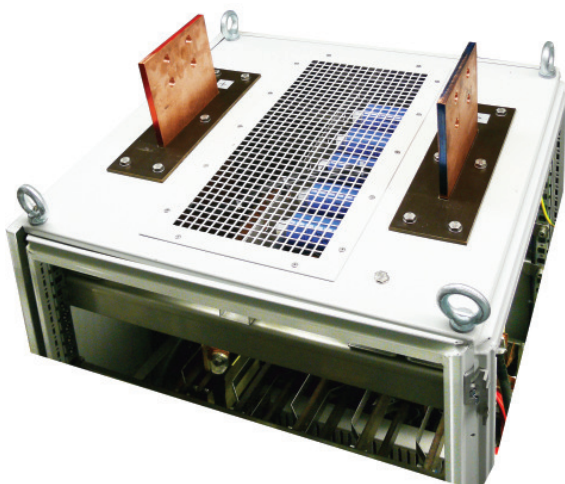
Pole changer function (mechanical / electronic) *

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.