

Output power:	60 - 500 Watts	Typical applications:	Laboratory plating lines
DC current:	10 - 50 A (max. 50 A / 10 V)	Precious metal plating	Reel-to-reel plating
DC voltage:	6 - 30 V (max. 30 V / 10 A)	PCB lines	Manual plating lines

DC power supply with switch mode technology, designed for use in electroplating and/or for installation in a cabinet.



POWER STATION pe3100-1, front view, with peRB-interface (RJ45)



POWER STATION pe3100-1, front view, with analogue X4-interface, cooling air inlet in the bottom and in the back panel

Characteristic values

Linearity inaccuracy < 0,5 %

Ripple less than < 0,5 %

Efficiency typical > 85 %

Constant current and voltage control

Soft start function

Over temperature protection

Pulse operation optional

Mains supply: standard 230 V +/- 10 % / 50-60 Hz
(other voltages on request)

Cooling

Optimized cooling air guiding, air consumption max. 50m³/h

Cooling air outlet on DC output side (turned air flow on request)

Ambient temperature 35°C (other on request)

Design

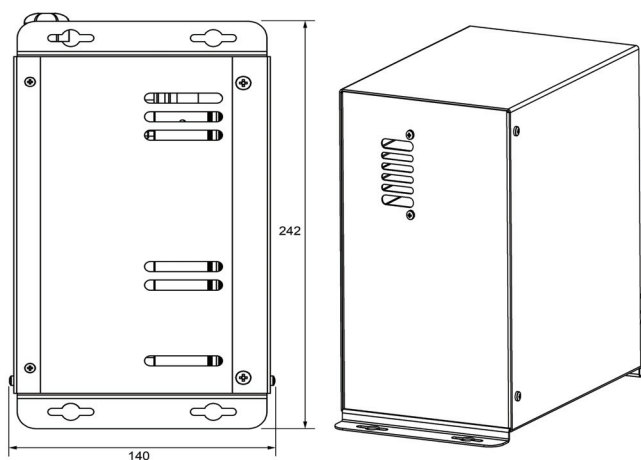
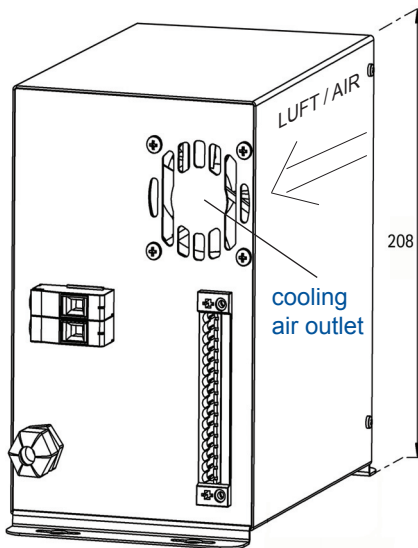
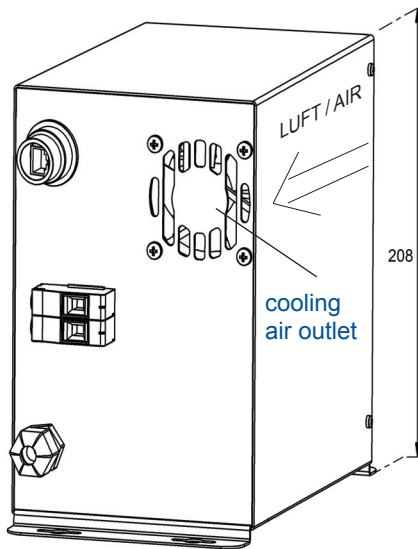
Stainless steel casing, optional coated, protection grade IP20

DC connection via clamps, touch proof

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 ¹					¹ other sizes on request
DC current	50 A		30 A	20 A		10 A
DC voltage	6 V	10 V	15 V	20 V	25 V	30 V
Mains supply	230 V AC					
Weight	approx. 3 kg					

Standard dimensions



cooling air inlet in
bottom

cooling air inlet in
back panel

Control

Standard: peRB-interface

or

Analog signals galvanically isolated:

0-10V, 4-20mA, 0-20mA (other on request), X4-connector

Control unit pe280
for the controlling of
DC power supplies of
the series POWER STATION pe3100

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)

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