

<b>Output power:</b>	800 - 12000 Watts	<b>Typical applications:</b>	Laboratory plating lines
<b>DC current:</b>	100 - 600 A (max. 600 A / 20 V)	Precious metal plating	Reel-to-reel plating
<b>DC voltage:</b>	4 - 30 V (max. 600 V / 20 A)	PCB lines	Manual plating lines

DC power supply in switch mode technology, designed for use in electroplating.



POWER STATION pe1058, front view



POWER STATION pe1058, back view

### Characteristic values

Linearity inaccuracy:

- for amperage < 1 %
- for voltage < 0.5 %

Ripple less than < 1 %

Efficiency typical > 85 %

Powerfactor  $\cos \varphi$  0,95

Constant current and voltage control

Soft start function

Over temperature protection

Current and voltage preset

Programmable control unit

Large 3-line LCD display

Keypad for operation and programming

Integrated Ampere-hour counter (totalizer)

(preset counter and other functions optional available)

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

Mains supply: standard 3x380 V - 460 V +/- 10 % / 50-60 Hz with N

### Cooling

Optimized cooling air guiding, air consumption

up to 6000W: max. 100m<sup>3</sup>/h

up to 12000W: max. 200m<sup>3</sup>/h

Cooling air outlet at the device back panel

Ambient temperature 35°C (other on request)

### Design

Compact desktop unit, protection grade IP21

Casing powder coated colour RAL 9018 (Standard)

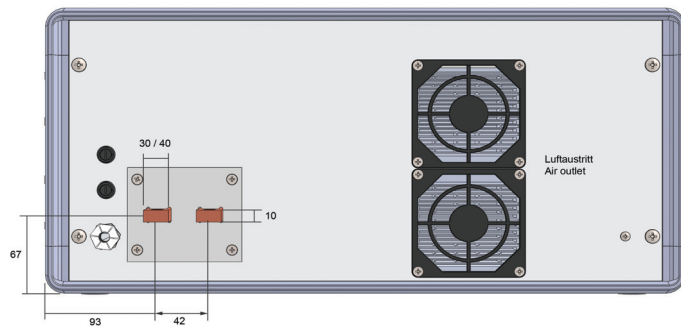
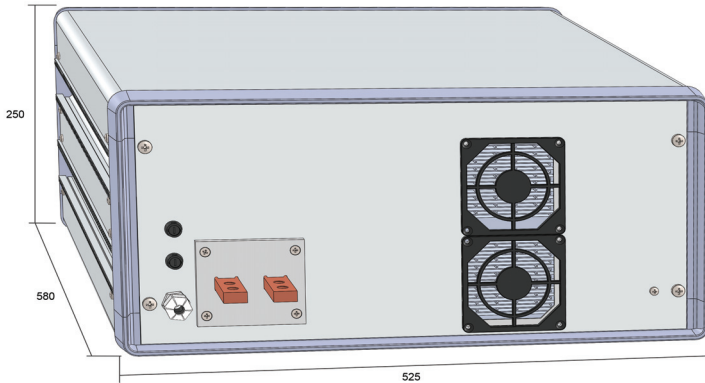
Aluminium front panel with polycarbonat film

DC connection in back panel

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			
	600 A										500 A	400 A	120 A	15 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	100 V	600 V	
Mains supply	3 x 400 V AC													
Weight	approx. 30 kg													

### Standard dimensions



### Control optional available

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

Serial interface RS485: X6 and X7 terminal

Serial interface Profibus

### 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

\* integrated pole changer up to 600A possible

### Information

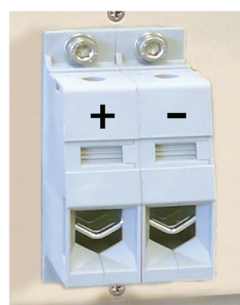
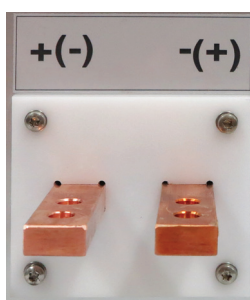
The maximum output power of these DC rectifiers are:

up to 12000 W - 580mm casing depth

### DC connector

For current output >50A, there are tin plated copper bus bars located in the back panel of the device

For voltage output >40V there are high voltage clamps located in the back panel of the device



DC tin plated copper bus bars installed in back panel

DC high voltage clamps installed in back panel

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