

Output power:	max.	6000 Watts	Typical applications:	Laboratory plating lines
DC current:	max.	300A (at 20V)	Precious metal plating	Reel-to-reel plating
DC voltage:	max.	600V (at 10A)	PCB lines	Manual plating lines

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



POWER STATION pe4083-ESK, front view



POWER STATION pe4083-ESK, 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)

Mains supply: 3 x 400 V +/- 10 % / 50-60 Hz without N (at 3kW)
1 x 230 V +/- 10 % / 50-60 Hz with N
(other voltages on request)

Cooling

Optimized cooling air guiding,

air consumption max. 100m³/h

Cooling air outlet at the device back panel

Ambient temperature 35°C (other on request)

Design

Protection grade IP20; sealed air duct

Stainless steel casing

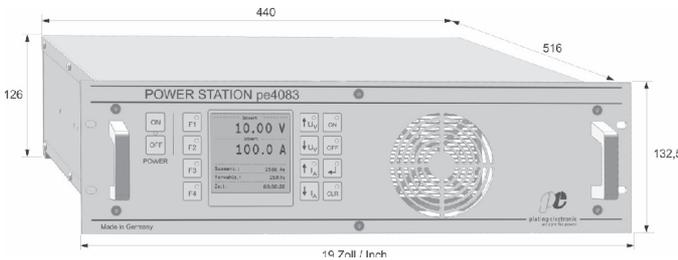
Aluminium front panel with polycarbonat film

DC connection in back panel

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 ¹						other sizes on request	
	6 V	10 V	12 V	15 V	18 V	20 V	200 A	10 A
DC current	300 A							
DC voltage								
Mains supply	3 x 400 V AC / 1 x 230 V AC							
Weight	approx. 12 kg							

Standard dimensions



Control optional available

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

Serial interface RS485:

Serial interface Profibus

TCP/IP Interface

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

Pole changer function, integrated electr. pole changer up to 150A possible

Programmable DC steps (14 individual steps) *

External enabling

* Indication / alarm output



DC connector

For current output >50A and voltage <40V, 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 output bus bars



DC-HDF-clamps

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