

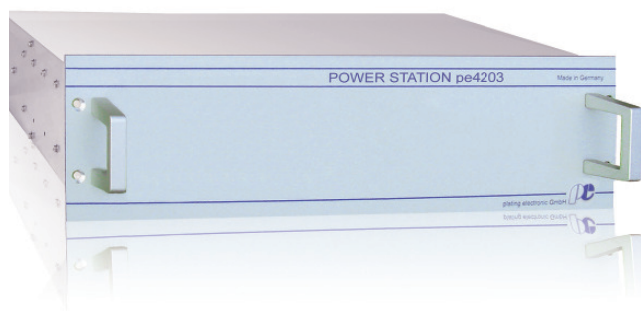
POWER STATION pe4203

Output power:	2400	-	20.000 Watts
DC current:	0	-	500 A (max. 500 A / 40 V)
	501	-	1000 A (max. 1000 A / 20 V)
DC voltage:	0	-	400 V (max. 400 V / 50 A)
	401	-	1000 V (max. 1000 V / 20 A)

Typical applications:

Chrome plating	Barrel plating
Anodizing/Aluminium colouring	Rack plating

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



POWER STATION pe4203, front view



POWER STATION pe4203, back view

Characteristic values

Linearity inaccuracy:

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

Ripple less than < 1 %

Efficiency typical > 85 %

Powerfactor $\cos \phi$ 0,95

Constant current and voltage control

Soft start function

Microprocessor controlled regulation

Mains supply: standard 3x400 V +/-10% / 50-60 Hz without N
(other voltages on request)

Cooling

Water cooled, over temperature protected

Ambient temperature 5° - 40°C

Design

Protection grade IP53

Anodized aluminium front panel

DC connection in back panel

Wall mounting possible via additional rails

Water connections 1/2 inch thread or bayonet connector
(cooling: brass / copper pipes)

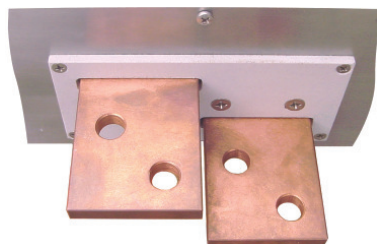
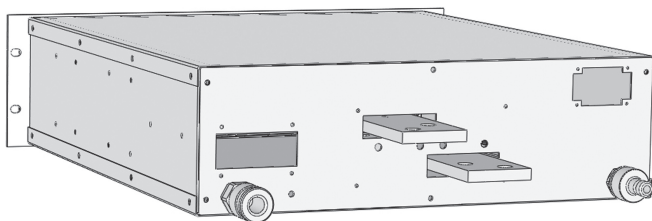
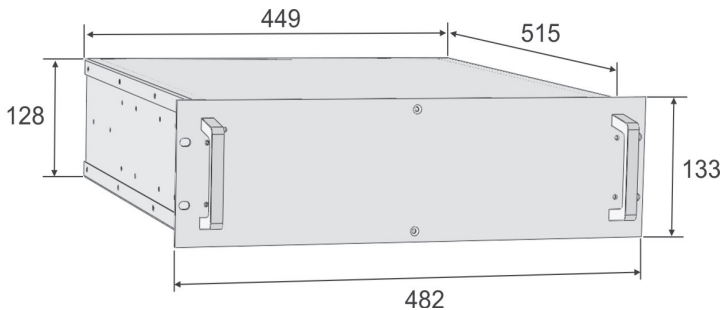
Operation parallel and serial (DC output) of up to 30 units possible

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										other sizes on request		
	1000 A										500 A	20 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 400 V AC												
Weight	approx. 50-70 kg												

Cooling water specifications: Tap water quality			
Sulfate ions	< 240 mg/l	pH-value	7,0 - 8,0
Nitrate ions	< 50 mg/l	Hardness degree	<= 7 dH
Sodium ions	< 150 mg/l	Cooling water inlet temperature	22°C - 25°C

Standard dimensions



DC output bus bars

Control

Standard: peRB-interface

Optional: external control via analog signals, also with integrated isolation amplifier

Signals: 0-10V
0-1V
4-20mA
0-20mA (other on request)

Control unit pe280
for the controlling of
DC power supplies of
the series POWER STATION pe4203

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)

DC output bus bars

Tin-coated copper bars

Size, location and design of the DC output bus bars may differ from the standard

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