DC POWER SUPPLY

POWER STATION pe5410-W



Output power:	20	-	110 kW	Typical applications:	
DC current:	50	-	5000 A (max. 5000 A / 22 V)	Chrome plating	Barrel plating
DC voltage:	4	-	30 V (max. 1000 V / 100 A)	Anodizing/Aluminium colouring	Rack plating

Water cooled DC power supply in switch mode technology, designed for the direct installation at the electroplating tank with minimal space requirement.



the output range can be individually multiplied



POWER STATION pe5410-W, front view



Characteristic values

Linearity inaccuracy: - for amperage < 1 % - for voltage < 0.5 %
Ripple less than < 1 %
Efficiency typical > 85 %
Powerfactor cos φ 0,95
Constant current and voltage control
Soft start function
Over temperature protection
Pulse operation optional
Mains supply: standard 3 x 400 V +/- 10 % / 50-60 Hz (other voltages on request)

Cooling

Water cooled / cooling water specification: see page 2							
Ambient temperature 40°C (other on request)							
Stainless steel cooling system, over temperature protected							

Design

Compact Rittal TS cabinet; protection grade: IP54
Powder coated, RAL 7035
Mains supply below in cabinet
Cooling water connection in the plinth, 1/2" connections
DC output bus bars: – Low voltage outputs in top plate of cabinet – High voltage outputs inside the cabinet
With mains power switch, fuses and sub distributor in a separate supply cabinet – optional available

Dimensions (W x H x D) 400 x 2200 x 600mm incl. plinth

POWER STATION pe5410-W, back view

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	5000 A									4000 A	3000 A	100 A
DC voltage	4 V	4 V 5 V 6 V 8 V 10 V 12 V 15 V 18 V 20 V 22 V							24 V	30 V	1000 V	
Mains supply	3 x 400V AC											
Weight	approx. 260 kg											
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600

400

DC output bus bars approx. 150mm

approx. 1930

Standard dimensions



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 pe5410-W						
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 *

Chopper timer (pulse-capable rectifier type requested) Pole changer function (mechanical / electronic) * Programmable DC steps (14 individual steps) *

Control via: RS485, PROFIBUS, TCP/IP (other on request)

Voltage / current alarm * Operating hours counter

* Indication / alarm output

Extern ON

Cooling water spezification

For the water cooling system, city water with the following specifications should be used:

ph Value:	7,0 - 8,0	Inlet temperature:	18-26°C
Hardness:	<=1,3 mmol/l (<=7°dH)	Water pressure:	> 2bar
Chloride:	<=100 mg/l		

To operate this rectifier, and to keep the specified values of the cooling water, a closed cooling system is recommended.

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

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