DC POWER SUPPLY

POWER STATION pe5010-W



Output power: 16 - 100 kW

DC current: 4000 - 8000 A (max. 8000 A / 4 V) Chrome plating

DC voltage: 2 - 24 V (max. 24 V / 4000 A) Anodizing/Aluminium colouring Rack plating

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



POWER STATION pe5010-W, front view

Characteristic values

Linearity inaccuracy:

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

Typical applications:

Ripple less than < 2 %

Efficiency typical > 85 %

Powerfactor cos φ 0,95

Constant current and voltage control

Soft start function

Over temperature protection

Internal shunt with 60 mV at I

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 connector in top of the cabinet

With mains power switch, fuses and sub distributor

Dimensions (W x H x D) $600 \times (2200+150) \times 600$ mm incl. plinth

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 ¹other sizes on request									uest
DC current	8000 A	7200 A					6500 A	5500 A	5000 A	4000 A
DC voltage	4 V	5 V	6 V	8 V	10 V	12 V	15 V	18 V	20 V	24 V
Mains supply	3 x 400V AC									
Weight	approx. 300–380 kg									





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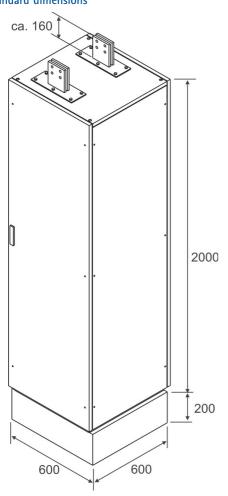


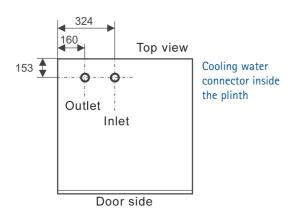
24.00 V

00:05:00

1500 A

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 pe5010-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 *

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)

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: $18-26^{\circ}$ C Hardness: <=1,3 mmol/I ($<=7^{\circ}$ 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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