DC POWER SUPPLY

POWER STATION pe5230-W



Output power: 20 - 240 kW

DC voltage:

DC current: 240 - 16000 A (max. 16000 A / 4 V)

4 - 30 V (max. 1000 V / 240 A)

Typical applications:

Chrome plating Barrel plating

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 pe5030-W, front view, example with integrated control panel pe280 with 800mm-supply cabinet

Characteristic values

Linearity inaccuracy:

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

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 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

Dimensions (W x H x D) 2400 x (2200+150) x 600mm 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											
DC current	16000 A 14400 A						13000 A		12000 A	10000 A	8000 A	240 A
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 400V AC											
Weight	approx. 1400 kg											





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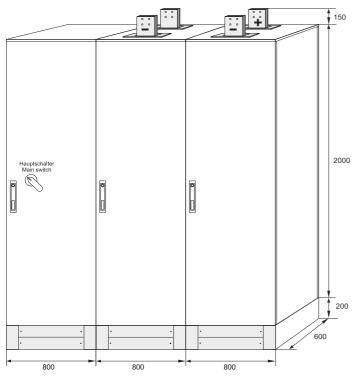
POWER STATION pe5230-W

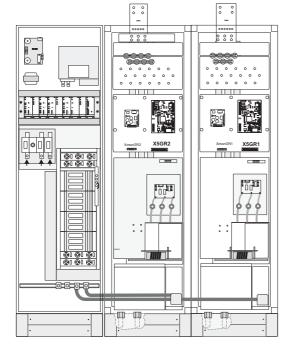


1500 A

00:05:00

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 pe5230-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



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

Chloride:

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

ph Value: 7,0 - 8,0 Hardness: <=1,3 mmol/l (<=7°dH)

<=100 mg/l

Inlet temperature: 18-26°C Water pressure: > 2bar

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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