

Output power: 100 - 750 Watts
DC current: 25 - 60 A (max. 60 A / 12 V)
DC voltage: 4 - 30 V (max. 250 V / 3 A)

Typical applications: Laboratory plating lines
Precious metal plating Reel-to-reel plating
PCB lines Manual plating lines

DC power supply with switch mode technology, designed for use in electroplating and/or for installation in a cabinet.



POWER STATION pe3000-1, front view

Characteristic values

Linearity inaccuracy < 0,5 %
Ripple less than < 0,5 %
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_{nenn}
Pulse operation optional
Mains supply: standard 230 V +/- 10 % / 50-60 Hz
(other voltages on request)

Cooling

Air cooled, convection cooling
Ambient temperature 35°C (other on request)



POWER STATION pe3000-1, lateral view

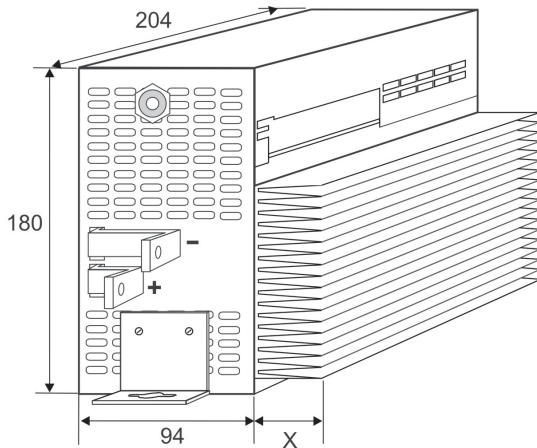
Design

Stainless steel casing, optional coated, protection grade IP20
DC connection via screw terminals
High voltage proof DC terminals (above 60 V)

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	
	60 A						50 A	40 A	30 A	25 A	20 A	15 A	10 A	3 A
DC current	4 V	5 V	6 V	8 V	10 V	12 V	15 V	18 V	20 V	24 V	20 V	24 V	30 V	250 V
DC voltage														
Mains supply	230 V AC													
Weight	approx. 6 kg													

Standard dimensions



Control

Analog signals:

Iset / Uset = 0-10V

Iact = 0-1V

Uact = 0V-Unenn

Control unit pe280
for the controlling of
DC power supplies of
the series POWER STATION pe3000

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

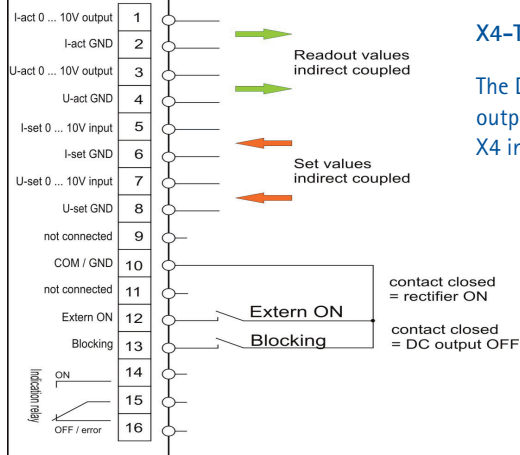
Control via: RS485, PROFIBUS, TCP/IP (other on request)

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

X2-X7



X4-Terminal via isolation amplifier

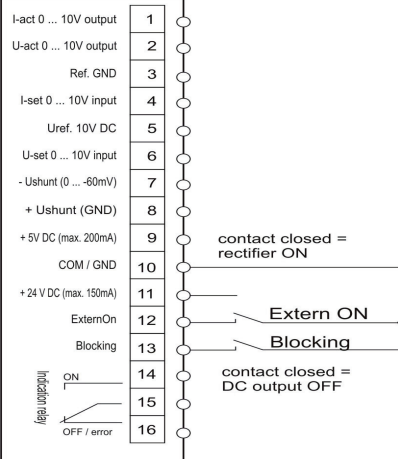


X4-Terminal

The DC power supplies of the POWER STATION series with analog output signals and isolation amplifier are equipped with the analog X4 interface.



X5-Service terminal

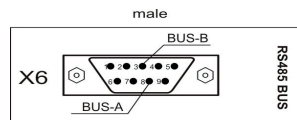


X5-Service terminal

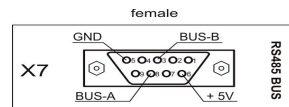
All standard analog DC power supplies of the POWER STATION series pe3000, 19" rack-mount units and the pe5000 cabinets are equipped with the X5-Terminal, called „Service terminal“

The standard 16pin terminal contains all control signals of the power supply (except; optional SENSE measuring input).

The POWER STATIONS are always delivered with the plug component to the 16pin X5-Terminal, connector casing and strain relief included.



BUS input



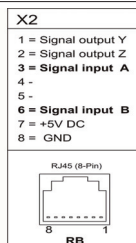
BUS output

X6-Terminal

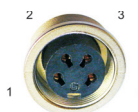
Serial interface RS485

X7-Terminal

Serial interface RS485



X2-RJ45 connector for peRB (for digital controlled POWER STATIONS)



Pin assignment of shunt connector on the back panel

1. + Ushunt (GND)
2. Shield
3. Shield
4. - Ushunt (0 ... 60mV)

view from outside!

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