

Output power:	480 - 4000 Watts	Typical applications:	Laboratory plating lines
DC current:	130 - 350 A (max. 350 A / 10 V)	Precious metal plating	Reel-to-reel plating
DC voltage:	4 - 30 V (max. 1000 V / 4 A)	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 pe3000-3, front view



POWER STATION pe3000-3, back view

Characteristic values

Linearity inaccuracy < 1 %

Ripple less than < 1 %

Efficiency typical > 85 %

Powerfactor $\cos \varphi$ 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 3 x 400 V +/- 10 % / 50-60 Hz without N
(other voltages on request)

Cooling

Optimized cooling air guiding, air consumption max. 180m³/h

Cooling air outlet at the black air grids (turned air flow on request)

Ambient temperature 35°C (other on request)

Design

Stainless steel casing, optional coated, protection grade IP20

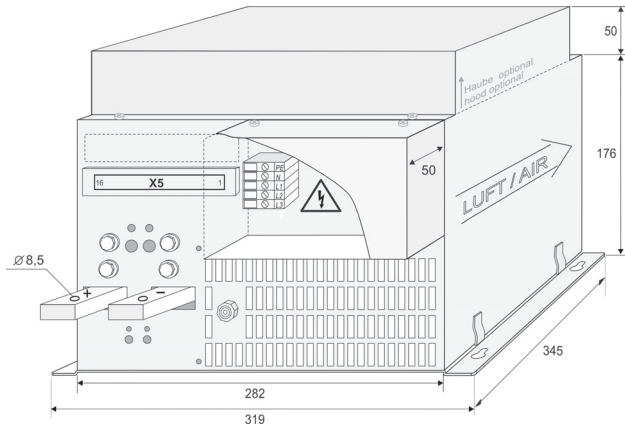
DC connection via screw terminals or tin plated copper bus bars

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	
	350 A					300 A	250 A	200 A		160 A	130 A	4 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. 12 kg											

Standard dimensions



Control

Analog signals Iset, Uset, Iact, Uact = 0-10 V

Control optional available (with raised casing)

Analog signals galvanically isolated via isolation amplifier:
0-10V, 4-20mA, 0-20mA (other on request), X4-terminal

Serial interface RS485: X6 and X7 terminal

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)

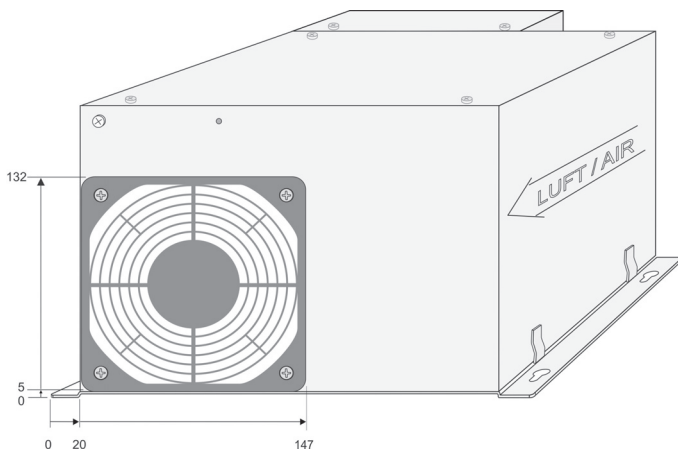
Pole changer function (mechanical / electronic) *

Programmable DC steps (14 individual steps) *

Extern ON

* Indication / alarm output

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

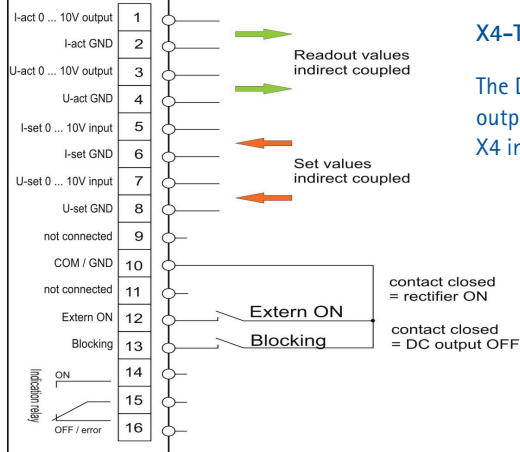


Technical equipment, design and features: subject to change! For further information please contact plating electronic GmbH.

X2-X7



X4-Terminal via isolation amplifier

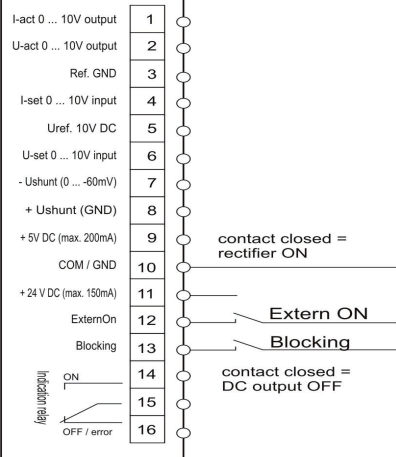


X4-Terminal

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

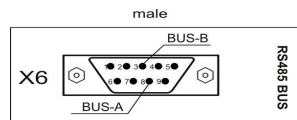


X5-Service terminal

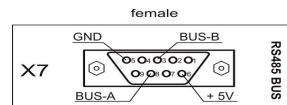
All standard analog DC power supplies of the POWER STATION series pe3000, 19" rack-mount units and the pe5000 cabinets are equipped with the X5-Terminal, called „Service terminal“

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



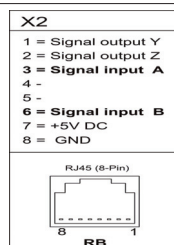
BUS output

X6-Terminal

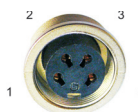
Serial interface RS485

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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