

POWER STATION pe1058

Output power:	800	-	6000 Watts
DC current:	200	-	600 A (max. 600 A / 6 V)
DC voltage:	4	-	30 V (max. 1000 V / 6 A)

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

DC power supply in switch mode technology, designed for use in electroplating.



POWER STATION pe1058, front view



POWER STATION pe1058, back view

Characteristic values

Linearity inaccuracy < 1 %

Ripple less than < 1 %

Efficiency typical > 85 %

Powerfactor cos ϕ 0,95

Constant current and voltage control

Soft start function

Over temperature protection

Current and voltage preset

Programmable control unit

Large 3-line LCD display

Keypad for operation and programming

Integrated Ampere-hour counter (totalizer)
(preset counter and other functions optional available)

Internal shunt with 60 mV at I_{nenn}

Mains supply: standard 3x400 V +/- 10 % / 50-60 Hz ohne N
(other voltages on request)

Cooling

Optimized cooling air guiding, air consumption
up to 4800W: max. 180m³/h
up to 6000W: max. 360m³/h

Cooling air outlet at the device back panel

Ambient temperature 35°C (other on request)

Design

Compact desktop unit, protection grade IP21

Casing powder coated colour RAL 9018 (Standard)

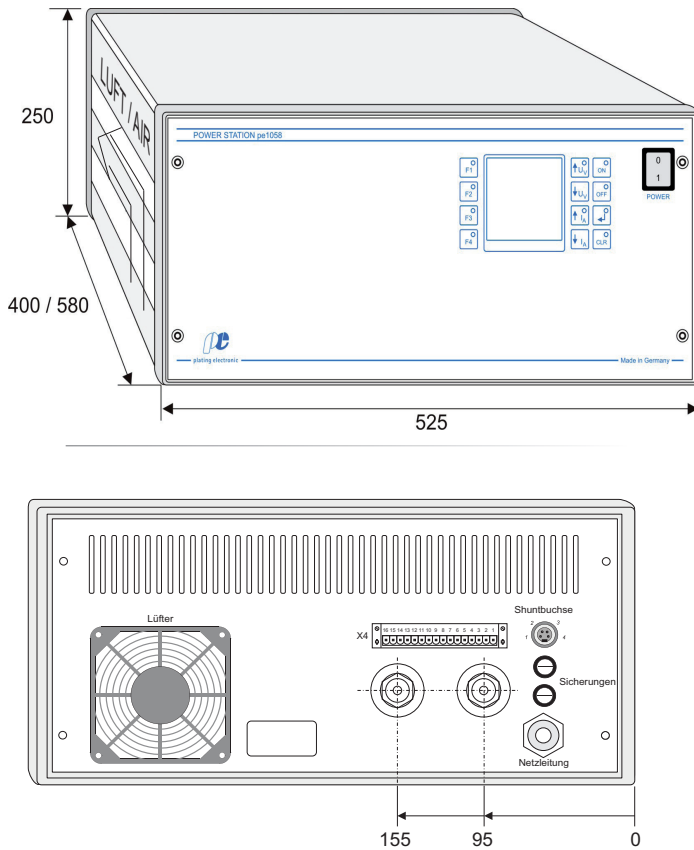
Aluminium front panel with polycarbonat film

DC connection in front or back panel (lead through bolts or oval flat clamp)

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	600 A			500 A		400 A		300 A		250 A	200 A	6 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	230 or 3x400 V AC												
Weight	approx. 21kg		approx. 23kg									approx. 32kg	

Standard dimensions



Control

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

Control optional available

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

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

Information

The maximum output power of these DC rectifiers are:

up to 4800 W - 400mm casing depth

up to 6000 W - 580mm casing depth

DC connector

For current output >400A, there are tin plated copper bus bars located in the back panel of the device



DC lead through bolts, up to 400A
can be installed in front or back panel

DC oval flat clamp, up to 400A
can be installed in front or back panel

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