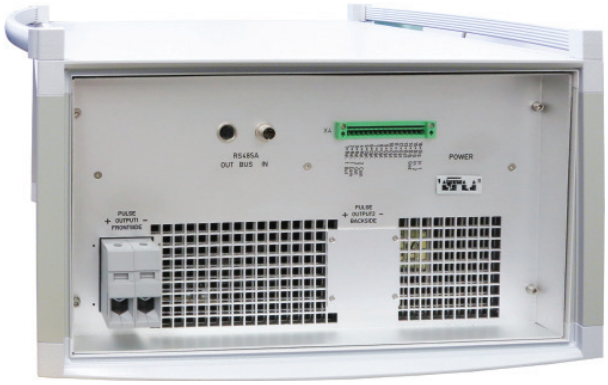
PULSE-REVERSE POWER SUPPLY

POWER PULSE pe861DA-GD

plating electronic
we care for power

Output power:	**max. 6360 Watts**	**Typical applications:**
Effective - and DC-current:	**max. 318 A**	PCB lines
Pulse current:	**max. 720 A**	Pulse plating
Effective voltage:	**max. 500 V**	Reel-to-reel plating

POWER PULSE pe861DA, front view



POWER PULSE pe861DA (with dual-output), back view

Characteristic values

- Switch mode technology
- Single or Dual output available
- Linearity inaccuracy < 1 % (related to nominal DC value)
- Ripple less than < 1 % (related to nominal DC value)
- Complex waveforms
- Constant current regulation (voltage regulation on request)
- RS485-interface (optional: PROFIBUS or TCP/IP)
- MMC/SD card reader for software update, import / export of device configuration, set values and storing of bus-logging data
- Fast rise and fall times (rectangular waveforms)
- Permanent short circuit and open circuit proof
- Microprocessor controlled regulation
- Synchronization function
- Programmable relay outputs / Digital inputs, e.g. for Extern-ON
- Mains supply: standard 400 V/3~ +/- 10 % / 50-60 Hz (other voltages on request)
- Max. effective output power: 1x 6360 Watts or 2x 3180 Watts

Cooling

- Air cooled, air consumption max. 510m³/h
- Ambient temperature 35°C (other on request)
- Over temperature protected

Design

- Compact desktop unit; protection grade IP21
- Casing powder coated; colour RAL 9018 (Standard
- Aluminium front panel with polycarbonate film
- DC/Pulse connection in back panel (high voltage clamps)

EMV: EN50011 class A, group B ; EN61000-6-4 and EN61000-6-2;
CE-conformity low voltage guide line: EN50178

Example:

Type	pe861DA-20-159-360-D	other sizes on request
Effective current / DC	2 x 159 A	
Forward pulse	2 x 360 A	
Reverse pulse	2 x 360 A	
Effective voltage	2 x 20 V	
Mains supply	3 x 400 V AC	
Cooling	air cooled via three fans	
Cooling air consumption	510m³/h	
Dimensions	625 x 332 x 630 (W x H x D)	
Weight	approx. 48 kg	

plating electronic GmbH | 79211 Denzlingen | Fon +49 7666 9009-0 | www.plating.de
Marie-Curie-Straße 6 | Germany | Fax +49 7666 9009-44 | info@plating.de

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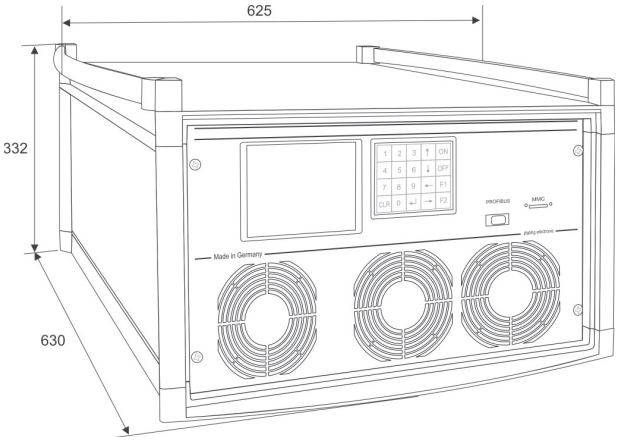
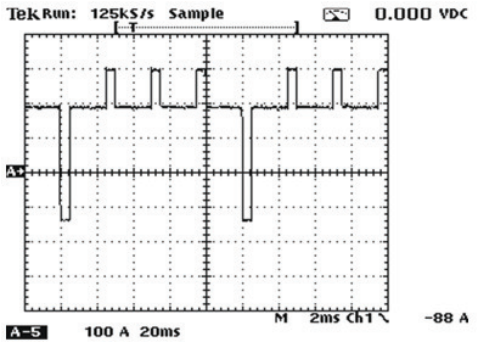
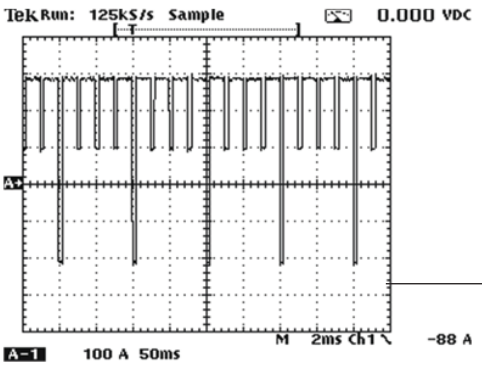
Dimensions (W x H x D): 625 x 332 x 630 mm







Operation / programming

- Large illuminated 5,7" graphic display
- 5 x 4 keypad for easy handling and navigation
- Clear and user friendly menu navigation via well structured pull down menus
- Easy generation of complex waveforms with up to 16 individual steps with 2 individual amplitudes (Ix1 and Ix2 as well as tx1 and tx2), that can be positive or negative
- 2 programmable output relays
- Ah-totalizer, dosage counter, timer
- Programmable START ramp
- Parameters individually adjustable even during operation

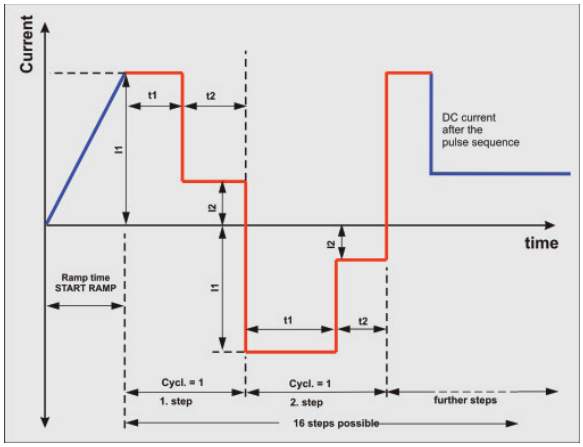
Display

- Clear display of actual values
- Graphic view of the set value shape, actual values shown in oscilloscope-mode
- Status, warning and error indication

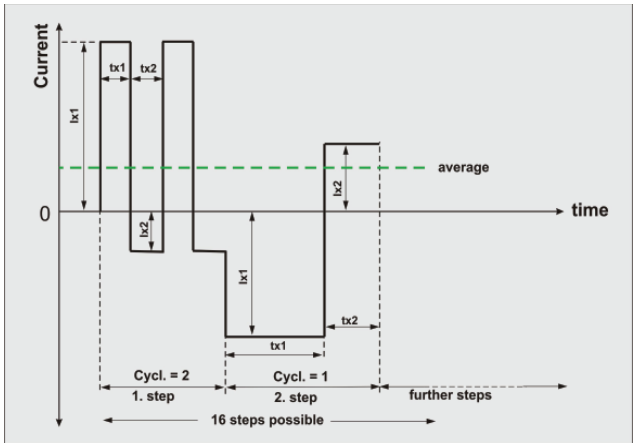
Resolution

- 0 up to +/- xx.xA for Ix1 and Ix2; resolution: 100mA
- 0 up to 9 999.9mSec for tx1 and tx2; resolution: 0,1mSec
- Cycles (repeatings per step): 1 - 99

Drawings:
Examples for waveforms that can be generated with this pulse reverse power supply.



Examples: pulse shapes, schematic display



Example 2: with average value

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