

PULSE-REVERSE POWER SUPPLY



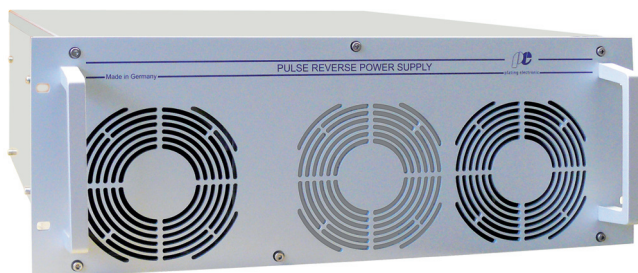
plating electronic
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POWER PULSE pe861DA

Output power:	max. 6360 Watts
Effective - and DC-current:	max. 318 A
Pulse current:	max. 720 A
Effective voltage:	max. 500 V

Typical applications:

PCB lines
Pulse plating
Reel-to-reel plating



POWER PULSE pe861DA-6-159-360-D, front view



POWER PULSE pe861DA-6-159-360-D, 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)
SPI interface for control unit pe8005
Fast rise and fall times (rectangular waveforms)
Permanent short circuit and open circuit proof
Microprocessor controlled regulation
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 19" unit; protection grade IP21
Stainless steel casing
Aluminium front panel
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-6-159-360-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 6 V	
Mains supply	3 x 400 V AC	
Cooling	air cooled via three fans	
Cooling air consumption	510 m ³ /h	
Dimensions	483 x 178 x 620 (W x H x D)	
Weight	approx. 60 kg	



(Control unit pe8005: not included in scope of supply)

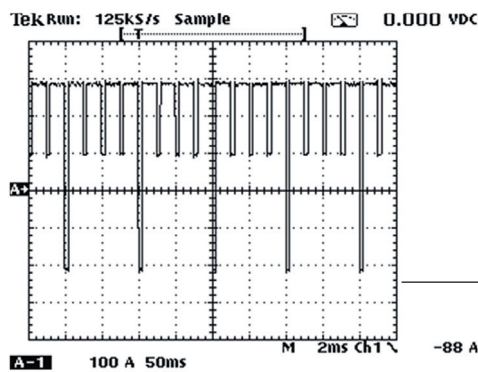
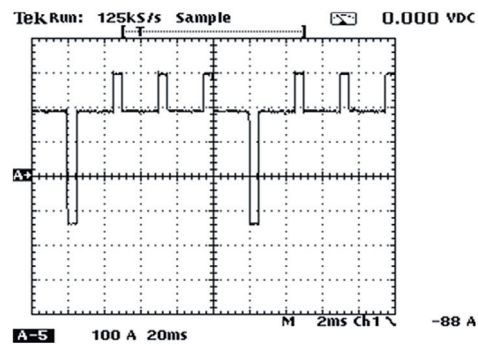
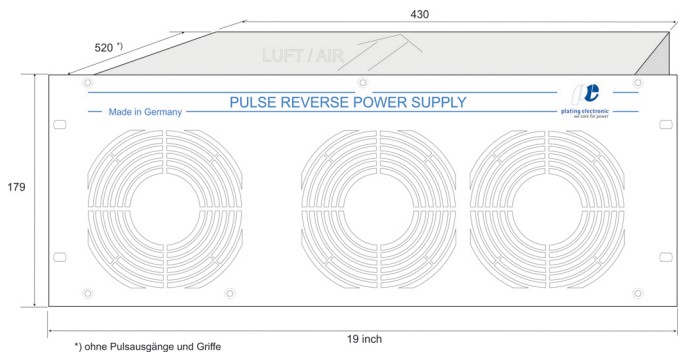
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Dimensions (W x H x D): 483 x 179 x 520 mm



Drawings:

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

Operation / programming (via external pe8005 control unit)

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 (I_{x1} and I_{x2} as well as t_{x1} and t_{x2}), that can be positive or negative

MMC/SD card reader for software update, import / export of device configuration, set values and storing of bus-logging data

Synchronization function

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

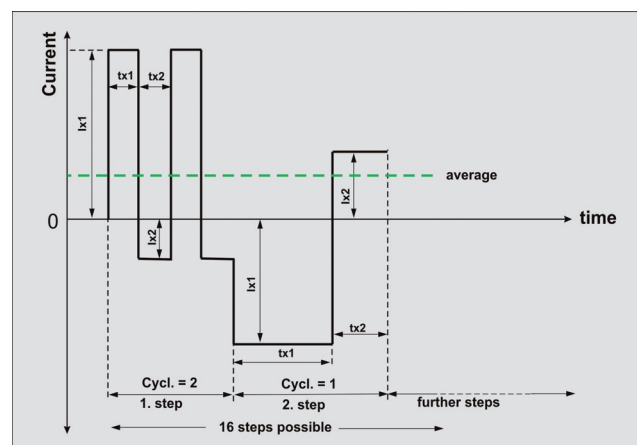
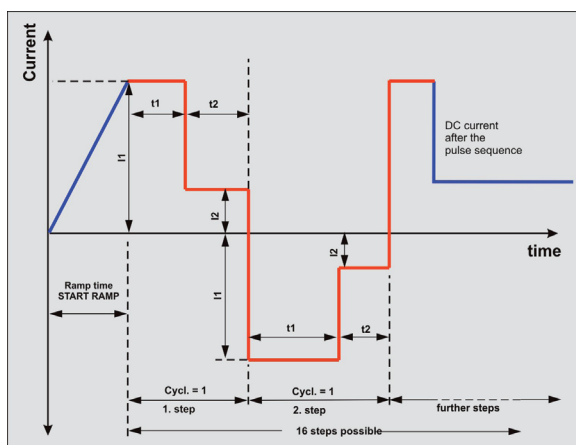
Status, warning and error indication

Resolution

0 up to +/- xx.xA for I_{x1} and I_{x2} ; resolution: 100mA

0 up to 9 999.9mSec for t_{x1} and t_{x2} ; resolution: 0,1mSec

Cycles (repeating per step): 1 - 99



Examples: pulse shapes, schematic display

Example 2: with average value