

# PULSE-REVERSE POWER SUPPLY



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## POWER PULSE pe86CB 3HE

Output power: max. 200 Watts  
Effective- and DC-current: max. 10 A  
Pulse current: max. 50 A  
Effective voltage: max. 20 V

Typical applications:  
Pulse plating  
Laboratory plating lines



POWER PULSE pe86CB, front view



POWER PULSE pe86CB, back view

### Characteristic values

Linear controlled

Linearity inaccuracy < 0.5% (related to nominal DC value)

Ripple less than < 0.5 % (related to nominal DC value)

Complex waveforms

Constant current regulation (standard)

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

Mains supply: standard 230 V +/- 10 % / 50-60 Hz  
(other voltages on request)

Max. effective output power: 200 Watts

### Cooling

Air cooled, air consumption max. 80m<sup>3</sup>/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 (oval flat clamps)

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

Type	pe86CB-20-5-25-S-GD	pe86CB-20-10-50-S-GD other sizes on request
Effective current / DC	5A	10A
Forward pulse	25A	50A
Reverse pulse	25A	50A
Effective voltage	20V	20V
Mains supply	230V AC (115V AC also available)	230V AC (115V AC also available)
Cooling	air cooled via one fan	air cooled via two fans
Cooling air consumption	40m <sup>3</sup> /h	80m <sup>3</sup> /h
Dimensions	450 x 143 x 380 (W x H x D)	450 x 143 x 380 (W x H x D)
Weight	approx. 12,5kg	approx. 14,5kg

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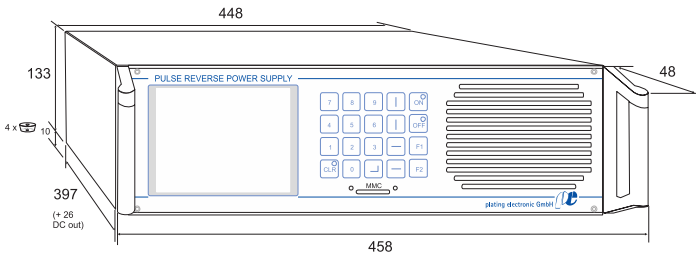
# PULSE-REVERSE POWER SUPPLY

## POWER PULSE pe86CB 3HE



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Dimensions (W x H x D): 450 x 143 x 380 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

15 pulse storage locations for pulse shapes (with 1 – 16 steps each)

Batch mode programming (batch processing) for up to 15 sequences with individual run time

2 programmable output relays

Ah-totalizer, dosage counter, timer

Programmable START and STOP ramp

Parameters individually adjustable even during operation

### Display

Clear display of actual values

Graphic display of set value curves

Status, warning and error indication

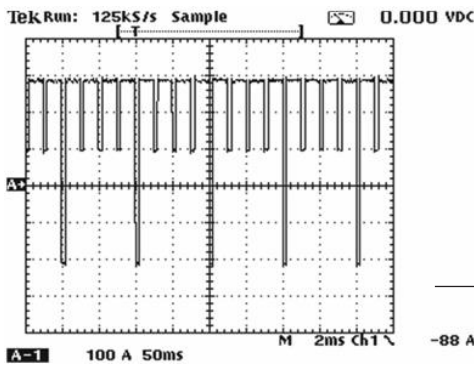
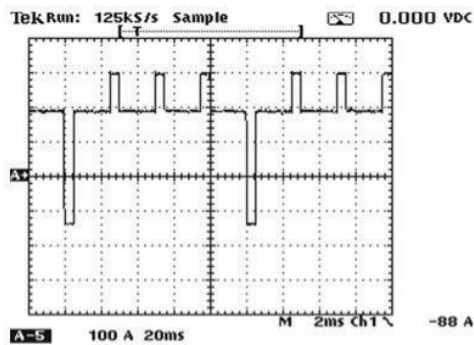
### Resolution

0 up to +/- xx.xxxA for Ix1 and Ix2; resolution: 1mA (up to 5A DC)

0 up to +/- xx.xxA for Ix1 and Ix2; resolution: 10mA (up to 10A DC)

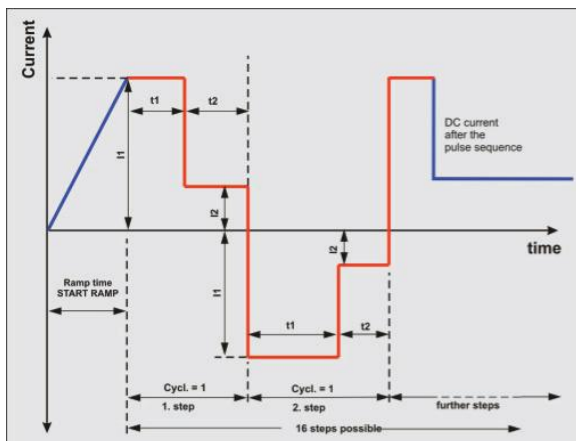
0 up to 9 999.9mSec for tx1 and tx2; resolution: 0,1mSec

Cycles (repeating per step): 1 - 99

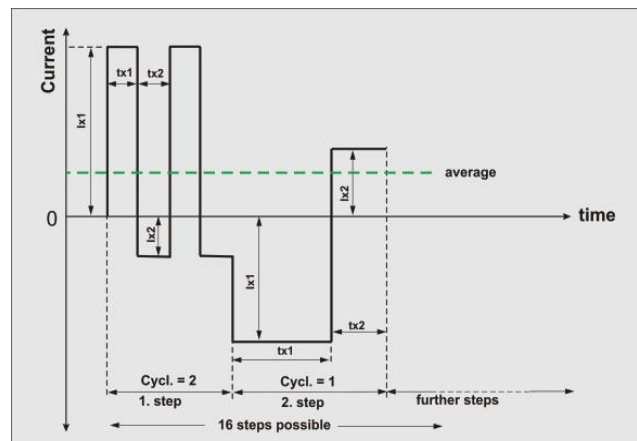


Drawings:

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



Examples: pulse shapes, schematic display



Example 2: with average value

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

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