

PULSE-REVERSE POWER SUPPLY



plating electronic
we care for power

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. 80m³/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 ³ /h	80m ³ /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

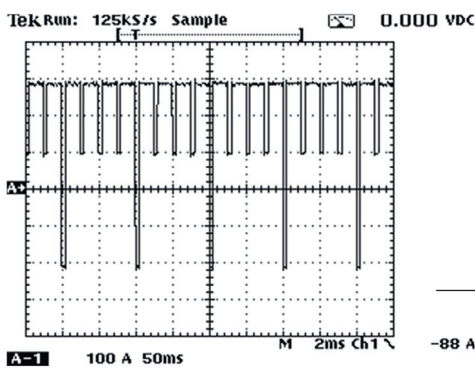
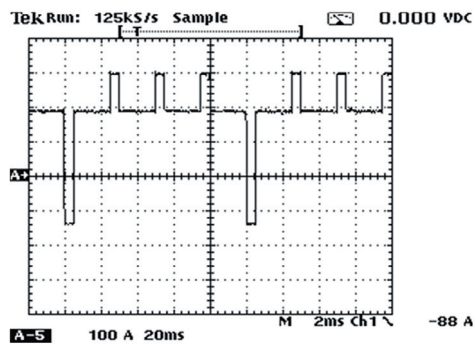
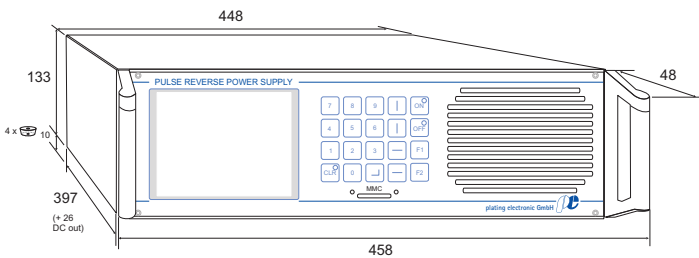
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Dimensions (W x H x D): 450 x 143 x 380 mm



Drawings:

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

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 (I_{x1} and I_{x2} as well as t_{x1} and t_{x2}), 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

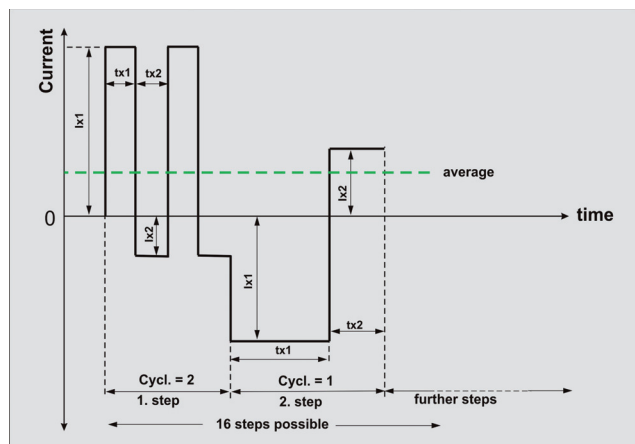
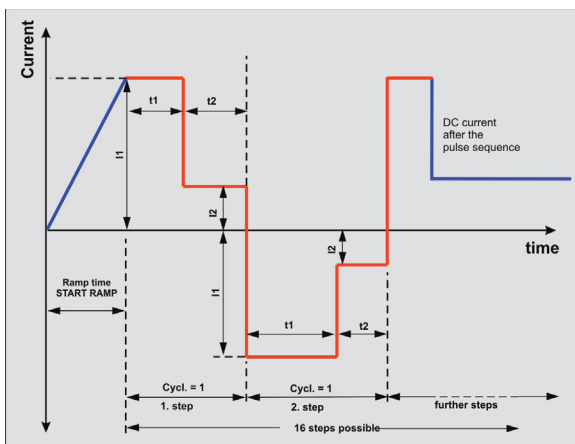
Resolution

0 up to +/- xx.xxxA for I_{x1} and I_{x2} ; resolution: 1mA (up to 5A DC)

0 up to +/- xx.xxA for I_{x1} and I_{x2} ; resolution: 10mA (up to 10A DC)

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