POWER PULSE pe80CD



Typical applications:

PCB lines

Output power: max. 2 x 16000 Watts (max. 4 x 8000 Watts)

Effective - and DC-current: max. 2 x 1060 A (max. 4 x 424 A)

Reverse-current: max. 2 x 2400 A (max. 4 x 960 A)

Effective voltage: Standard 2 x 6 V (4 x 6 V), other voltages on request (up to 550V)



POWER PULSE pe80CD, front view



POWER PULSE pe80CD, back view

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

Characteristic values

Switch mode technology

Dual output, 4-fold output (single output optional) (see below matrix)

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 380 V - 460 V/3 \sim +/- 10 % / 50-60 Hz

Optional: $200 \text{ V} - 240 \text{ V}/3 \sim +/- 10 \% / 50-60 \text{ Hz}$ Max. effective output power: see below matrix

Cooling

Water cooled (designed for the direct installation at the electroplating tank)

Ambient temperature 40°C

Over temperature protected

Design

Compact stainless steel casing; protection grade IP54

DC/Pulse connection in back panel (tin copper bus bars)



Control unit pe8005, front view



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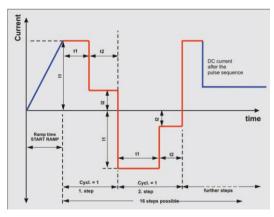


Technical specifications -POWER PULSE pe80CD - dual output / 4-fold output

Туре	pe80CD122 / pe80CD124	pe80CD202 / pe80CD204	pe80CD322 / pe80CD324*	pe80CD402 / pe80CD404*
Forward current	2 x 120 A / 4 x 120 A	2 x 200 A / 4 x 200 A	2 x 320 A / 4 x 320 A	2 x 400 A / 4 x 400 A
Reverse pulse current	2 x 360 A / 4 x 360 A	2 x 600 A / 4 x 600 A	2 x 960 A / 4 x 960 A	2 x 1200 A / 4 x 1200 A
Current ratio I _F : I _R	free adjustable			
Effective current / DC	2 x 159 A / 4 x 159 A	2 x 265 A / 4 x 265 A	2 x 424 A / 4 x 424 A	2 x 530 A / 4 x 530 A
Minimum time reverse-pulse	0,1 msec.			
Water cooling				
Max. water inlet temperature	23 - 26°C			
Max. water outlet temperature	40°C			
Water consumption approx.	3 I/min (*3,6 I/min)			

Туре	pe80CD442	pe80CD482	pe80CD522	pe80CD602	
Forward current	2 x 440 A	2 x 480 A	2 x 520 A	2 x 600 A	
Reverse pulse current	2 x 1320 A	2 x 1440 A	2 x 1560 A	2 x 1800 A	
Current ratio I _F : I _R	free adjustable				
Effective current / DC	2 x 583 A	2 x 636 A	2 x 689 A	2 x 795 A	
Minimum time reverse-pulse	0,1 msec.				
Water cooling					
Max. water inlet temperature	23 - 26°C				
Max. water outlet temperature	40°C				
Water consumption approx.		3,4 l/min			

Туре	pe80CD642	pe80CD722	pe80CD762	pe80CD802	
Forward current	2 x 640 A	2 x 720 A	2 x 760 A	2 x 800 A	
Reverse pulse current	2 x 1920 A	2 x 2160 A	2 x 2280 A	2 x 2400 A	
Current ratio I _F : I _R	free adjustable				
Effective current / DC	2 x 848 A	2 x 954 A	2 x 1007 A	2 x 1060 A	
Minimum time reverse-pulse	0,1 msec.				
Water cooling					
Max. water inlet temperature	23 - 26°C				
Max. water outlet temperature	40°C				
Water consumption approx.	3,7 l/min	4,1 l/min	4,4 l/min	4,6 l/min	



Examples: pulse shapes, schematic display

O E time

Cycl. = 2 Cycl. = 1
2. step further steps

16 steps possible

Example 2: with average value

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

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POWER PULSE pe80CD



Operation / programming

down menus

(via external pe8005 control unit)

Large illuminated 5,7" graphic display

tx2), that can be positive or negative

Synchronization function
2 programmable output relays
Ah-totalizer, dosage counter, timer

Programmable START ramp

5 x 4 keypad for easy handling and navigation

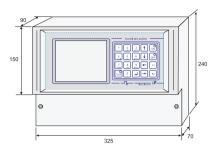
RS485 interface (optional: PROFIBUS or TCP/IP)

Clear and user friendly menu navigation via well structured pull

Easy generation of complex waveforms with up to 16 individual steps with 2 individual amplitudes (Ix1 and Ix2 as well as tx1 and

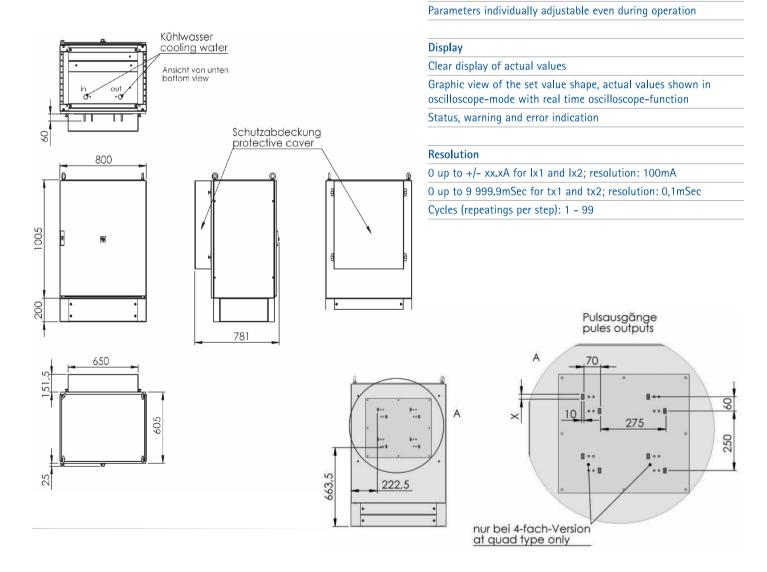
MMC/SD card reader for software update, import / export of

device configuration, set values and storing of bus-logging data



Control unit pe8005 Dimensions (W x H x D): 325 x240 x 90 mm

Dimensions (W x H x D): 800 x 1205 x 781 mm



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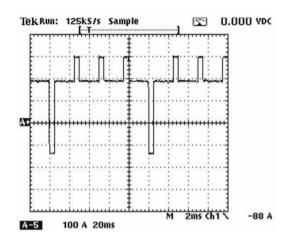
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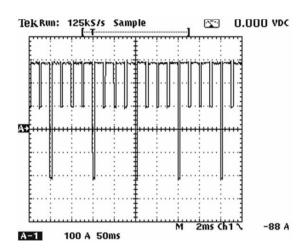
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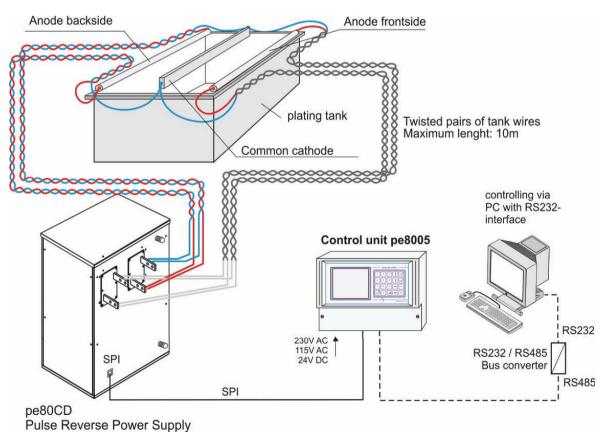






Graphic: example for pulse curves that can be generated by the pulse rectifier

Wiring diagram pe80CD Pulse-Reverse Power Supply and control unit pe8005



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