PULSE-REVERSE POWER SUPPLY

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

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 3x380 V - 460 V +/- 10 % / 50-60 Hz (other voltage on request)
- Max. effective output power: 1x 6360 Watts or 2x 3180 Watts

Cooling

- Air cooled, air consumption max. 510 m³/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:

<table>
<thead>
<tr>
<th>Type</th>
<th>pe861DA-6-159-360-D</th>
<th>other sizes on request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Effective current / DC</td>
<td>2 x 159 A</td>
<td></td>
</tr>
<tr>
<td>Forward pulse</td>
<td>2 x 360 A</td>
<td></td>
</tr>
<tr>
<td>Reverse pulse</td>
<td>2 x 360 A</td>
<td></td>
</tr>
<tr>
<td>Effective voltage</td>
<td>2 x 6 V</td>
<td></td>
</tr>
<tr>
<td>Mains supply</td>
<td>3 x 400 V AC</td>
<td></td>
</tr>
<tr>
<td>Cooling</td>
<td>air cooled via three fans</td>
<td></td>
</tr>
<tr>
<td>Cooling air consumption</td>
<td>510 m³/h</td>
<td></td>
</tr>
<tr>
<td>Dimensions</td>
<td>483 x 178 x 620 (W x H x D)</td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 45 kg</td>
<td></td>
</tr>
</tbody>
</table>

(Control unit pe8005: not included in scope of supply)
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POWER PULSE pe861DA

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

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 (Ix1 and Ix2 as well as tx1 and tx2), 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 Ix1 and Ix2; resolution: 100mA
- 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.