High voltage power supply for Capillary zone electrophoresis

Output volt. : 0 to 30 kVDC
Output cur. : 0 to 250 µA

CZE series

www.matsusada.com
CZE series

High voltage power supply for Capillary zone electrophoresis

FEATURES

- Output polarity reversible
- Equipped with Constant voltage (CV) / Constant current (CC) functions as a standard
- High stability

SUMMARY

CZE series is the best high voltage power supply for Capillary Electrophoresis. (CE)
It is equipped standardly with constant voltage (CV) / constant current (CC) function and output polarity reversing function which are required for CE, so high quality CE is achieved smoothly.

LINEUP

<table>
<thead>
<tr>
<th>Model</th>
<th>Rated Output Voltage</th>
<th>Rated Output Current</th>
<th>Rated Output Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>CZE-30PN0.25</td>
<td>0 to ±30 kVDC</td>
<td>0 to 250 µA</td>
<td>7.5 W</td>
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### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Input voltage</th>
<th>100 V to 240 VAC  50 / 60 Hz  single phase</th>
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</table>
| Output control | Local: Constant voltage mode, by 10-turn potentiometer  
Constant current mode, by 10-turn potentiometer  
Remote: Constant voltage mode, by external voltage of 0 to 10 Vdc*  
Constant current mode, by external voltage of 0 to 10 Vdc*  
(Input impedance of 10 kΩ) |
| Voltage regulation | Line: ±0.05 % (for ±10 % of input change)  
Load: 0.05 % (for 10 to 100 % of load change) |
| Current regulation | Line: ±0.05 % (For ±10 % of input change)  
Load: 0.05 % (for 10 to 100 % of load change) |
| Ripple | 0.1 %p-p |
| Stability | 0.01 %/10 min, 0.03 %/hr |
| Control of polarity reversal | By the changing switch on the front panel and changing the connector on the rear panel. |
| Protections | Over voltage protection  
Protection against output short circuit and arc discharge |
| Output display | Output voltage: 3-digit digital meter  
Output current: 3-digit digital meter |
| Monitor output | Output voltage monitor: 0 to ±10Vdc/0 to ±30 kV  
Output current monitor: 0 to +10Vdc/0 to 250 µA  
(For both, output impedance is 1 kΩ, accuracy is ±1 % of Full scale) |
| Remote control connector | Amphenol 36-pin connector on the rear panel |
| Operation temp. | 0 to 45 °C |
| Storage temp. | -20 °C to +75 °C |
| Storage humidity | 20 % to 80 %RH (no condensation) |
| Accessories | 2.5-meter output high-voltage shielded cable (flying lead) (1)  
AC input cable (1)  
Instruction manual (1) |

### DIMENSIONS  inch(mm)

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<td>12.99 (330)</td>
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<tr>
<td>5.51 (140)</td>
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### OPTIONS

- **-LDS** Door switch, Remote switch ON/OFF  
- **-LW** Slow start  
  Output voltage rises to the preset value about 10 seconds later after POWER switch is ON.  
  This function is available only when CZE is controlled with local mode.

Add -L mark to the model number when ordering.  
(e.g) CZE-30PN0.25-LDSW  (alphabetical order)
Customer Inquiry Sheet (CZE Series)

Please copy this page and above fax number after filling out form below.

I would like

- A quotation
- An explanation of product
- A demonstration
- To purchase
- Other ( )

Give us your requirement / comment

Please fill in below.

Address:

Company:

Dept.: Title:

Name:

Tel: Fax:

E-mail:

Manufacturer warranty

We warrant the specification, unless otherwise specified, at max. rated output after warm up, and scope of application is between 10% and 100% of max. rated output. We warrant that products contained in this catalog (hereinafter, the “Products”) are free from defects in material and workmanship under normal use for a period of one (1) year from the date of shipment thereof. However, the warranty period for X-ray detectors and X-ray source shall be either one (1) year from the date of shipment or 1,000 hours, whichever shorter. The above warranty shall not apply to any Product which, at our sole judgment, has been: i) Repaired or altered by persons unauthorized by us; or ii) Connected, installed, adjusted or used otherwise than in accordance with the instructions furnished by us (including being used in an inappropriate installation environment, such as in corrosive gas, high temperature and humidity). We are not liable for any loss, damage or failure of the Products after the shipment thereof caused by external factors such as disasters. We will not inspect, adjust or repair any of our power supply products in the field or at any customer site. If you suspect that there has been a power supply failure in the field, please inspect your whole unit by yourself in an effort to determine that the problem is, in fact, arising out of our power supply products. If it is found that the problem is arising out of such power supply product after inspection, please contact your local sales office for additional troubleshooting. A “Return Merchandise Authorization” is required in case the power supply must be sent back to the factory in Japan for inspection and repair. We, at our sole discretion repair or replace such defective products at no cost to the purchaser. We assume no liability to the purchaser or any third party for special, incidental, consequential, or other damages resulting from a breach of the foregoing warranty. This warranty excludes any and all other warranties not set forth herein, express or implied, including without limitation the implied warranties of merchantability or fitness for a particular purpose. The Products are not designed and produced for such applications as requiring extremely high reliability and safety, or involving human lives (such as nuclear power, aerospace, social infrastructure facility, medical equipment, etc.). The use under such environment is not covered by this warranty and may require additional design and manufacturing processes. No modification or supplement of this warranty shall be binding unless in writing and signed by a duly authorized officer of Matsusada. Matsusada reserves the right to make any changes in the contents of catalogs or specifications at any time without advance notice. Due to compelling reason such as unavailability of components used, products might be un available or unable to repair. The products specified in catalogs or specifications are designed for use by the person who has enough expertise or under the control of such person, and not for general consumers. Schematics of products shall not be submitted to users. Test result or test data for the products shall be available upon request with charge.

PLEASE SEE THE LINK BELOW FOR THE COMPLETE WARRANTY TERMS

http://www.matsusada.com/site/warranty.html