

The high voltage generator KNH35 / KNH65 is a robust, all-round supply unit for the Eltex DC charging electrodes and other high voltage applications in industry and in laboratories.

The generator delivers a maximum of 30 kV / 60 kV and is available both with negative and positive polarity.

Versatile use

- Voltage or current constant operation selectable
- High output power with high efficiency
- Remote control and remote monitoring via analog interface
- Easy installation
- Minimum space required

Safe operation

- Self-monitoring and alarm function
- Password security
- Programmable voltage/ current limits
- Optional chopped operation
- Fail-safe operating data backup
- Sturdy steel enclosure
- Protection class IP54

Precise work

- Minimum output value deviations
- Good output value reproducibility

Easy operation

- Menu-assisted operation
- Two-line backlight display, messages in plain text
- Large operating keys
- Easy connection concept

Technical Information

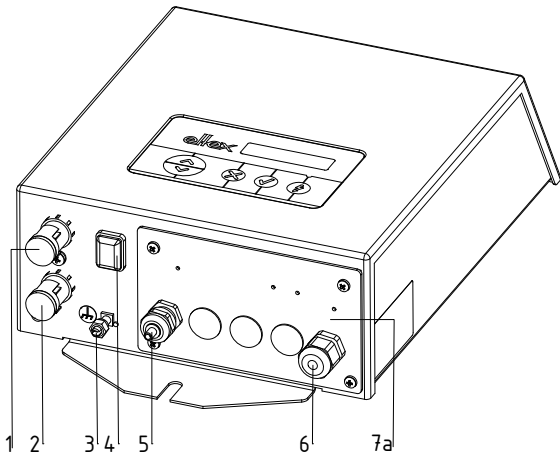


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High-Voltage Generator KNH35 / KNH65

TI-en-3031-2004

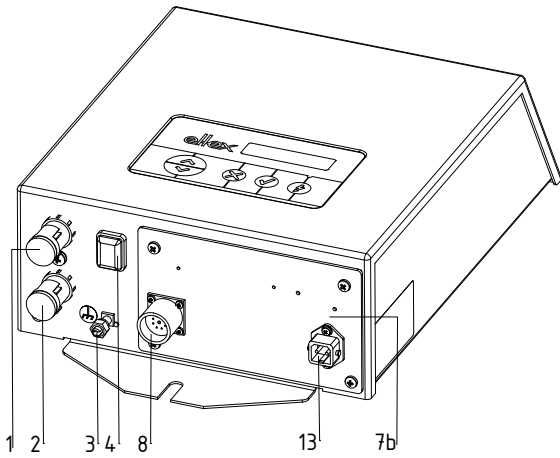




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Electrical connection

- 1 High voltage output 1
- 2 High voltage output 2
- 3 Ground terminal
- 4 Operating switch ON/OFF
- 5 Cable gland: analog interface connection
- 6 Cable gland: mains voltage connection
- 7a Front plate with screw-type terminals



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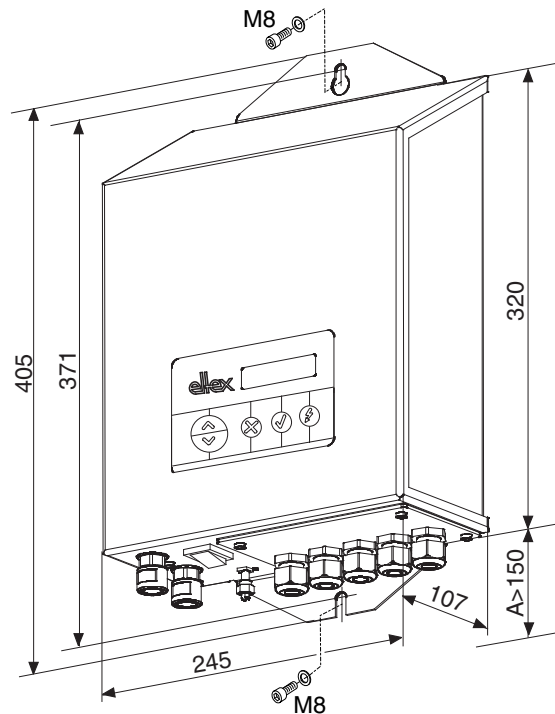
Plug-type design variant

- 1 High voltage output 1
- 2 High voltage output 2
- 3 Ground terminal
- 4 Operating switch ON/OFF
- 7b Front plate with sockets
- 8 Analog interface
- 13 Mains voltage input

Dimensions

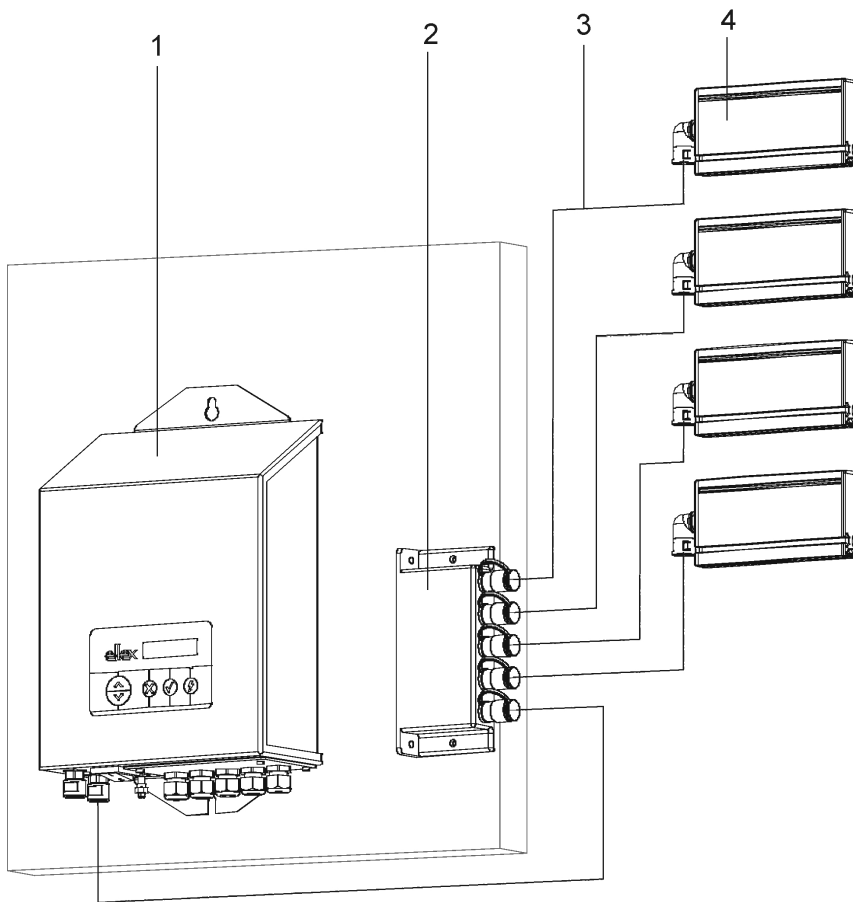
with mounting bracket,
fixed with M8 screws

A = Space for cable connections



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Connecting several electrodes via the distributor box KNHV



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- 1 Generator
- 2 Distributor box KNHV3 / KNHV6
- 3 High voltage cable
- 4 Charging bars

The distributor box KNHV (available separately) allows the number of connected electrodes to be increased.

Note: The sum total of the electrode currents must not exceed the maximum output current of the generator.

Example:

Current per meter of active bar length: 1 mA

Sum total of active bar lengths: 2 meters

=> maximum total current: 2 mA

Analog interface

The analog interface allows the generator to be integrated into an SPC or into another environment using 0...10 V or 0...20 mA interfaces.

Technical specifications

<p>Power ratings</p> <p>Supply voltage</p> <p>Output voltage</p> <p>Output current</p> <p>AC component</p> <p>Feedback control</p> <p>External fusing</p> <p>Power input</p> <p>Enclosure</p> <p>Protection class</p> <p>Ambient operating temperature</p> <p>Storage temperature</p> <p>Ambient humidity</p> <p>Dimensions with wall bracket</p> <p>Weight</p>	<p>KNH35/____ 1 and KNH65/____ 1 : 115 VAC ±10 %, 50 - 60 Hz KNH35/____ 2 and KNH65/____ 2 : 230 VAC ±10 %, 50 - 60 Hz</p> <p>3...30 kV ±2 % of full scale (KNH35), 6...60 kV ±2 % o.f.s. (KNH65)</p> <p>Display resolution 100 V, adjustable in increments of 100 V</p> <p>0,2...5 mA ±2 % of full scale (KNH35), 0,1...2.5 mA ±2 % o.f.s. (KNH65)</p> <p>Display resolution 10 µA, adjustable in increments of 10 µA</p> <p><3 % at U_{max} and I_{max}</p> <p>Voltage constant or current constant control selectable</p> <p>Circuit breaker 6A</p> <p>Tripping characteristic D in compliance with DIN EN 60898-1 (VDE 0641-11) and tripping characteristic K in compliance with DIN EN 60947-2 (VDE 0660-101)</p> <p>255 VA max.</p> <p>Sheet metal steel, 1.5 mm, enamelled</p> <p>IP 54</p> <p>+5...+40°C (+41...+104°F) for hanging installation and free convection +5...+35°C (+41...+95°F) for horizontal mounting</p> <p>-20...+70°C (-4...+158°F)</p> <p>max. 80 % r.h., non-condensing</p> <p>405 x 245 x 107 mm (H x W x D)</p> <p>KNH35: 5.2 kg; KNH65: 6.2 kg</p>		
<p>Connections, interfaces</p> <p>High voltage output</p> <p>Analog interface</p>	<p>Mains voltage and interfaces are designed as screw-type terminals; alternative plug-type connections are available</p> <p>2 high voltage connections for the direct connection of two consumers; number of consumers can be enlarged via distributor box KNHV3 resp. KNHV6</p> <p>Floating input for external high voltage release (24 V DC) input setpoint: 0...10 V or 0...20 mA</p> <p>Output voltage actual value and output current actual value: 0...20 mA</p> <p>Floating fault signal contact (max. 24 V / 2 A DC/AC)</p>		
<p>Order information</p> <p>Generator</p> <p>Distributor</p> <p>Generator-distributor cable</p>	<table border="0"> <tr> <td style="vertical-align: top;"> <p>30 kV</p> <p>KNH35/ [1] [2] [3] [4] [5]</p> <p>[1] : Configuration A = standard</p> <p>[3] : K = terminals, S = plugs</p> <p>[5] : 1 = 115 V, 2 = 230 V</p> <p>KNHV3</p> <p>KA/RR (specify length)</p> </td> <td style="vertical-align: top;"> <p>60 kV</p> <p>KNH65/ [1] [2] [3] [4] [5]</p> <p>[2] : N = negative, P = positive</p> <p>[4] : O = standard</p> <p>KNHV6</p> <p>KA/UU (specify length)</p> </td> </tr> </table>	<p>30 kV</p> <p>KNH35/ [1] [2] [3] [4] [5]</p> <p>[1] : Configuration A = standard</p> <p>[3] : K = terminals, S = plugs</p> <p>[5] : 1 = 115 V, 2 = 230 V</p> <p>KNHV3</p> <p>KA/RR (specify length)</p>	<p>60 kV</p> <p>KNH65/ [1] [2] [3] [4] [5]</p> <p>[2] : N = negative, P = positive</p> <p>[4] : O = standard</p> <p>KNHV6</p> <p>KA/UU (specify length)</p>
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