

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 and digital interfaces (CAN bus, CANopen or Profibus)
- 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

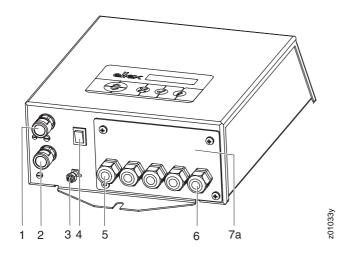


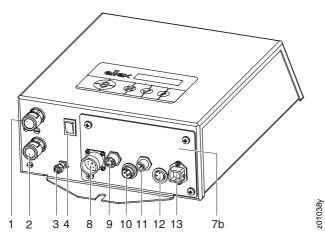
High-Voltage Generator KNH35 / KNH65

TI-en-3031-0712



static control





Dimensions

with mounting bracket, fixed with M8 screws

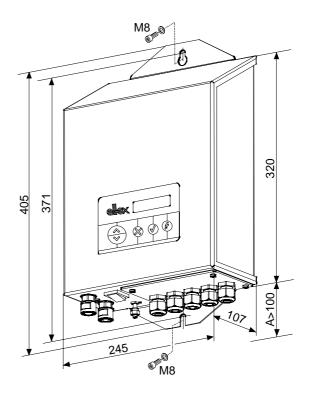
A = Space for cable connections

Electrical connection

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

Plug-type design variant

- 7b Front plate with sockets
- 8 Analog interface
- 9 Profibus (male) / CANopen
- 10 CAN bus (male)
- 11 Profibus (female) / CANopen
- 12 CAN Bus (female)
- 13 Mains voltage input

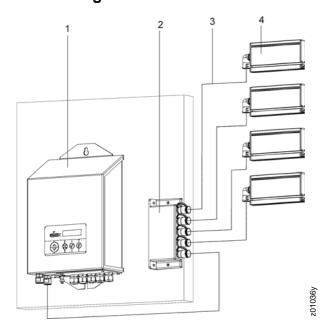




innovations

z01034y

Connecting several electrodes via the distributor box KNHV



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: 3 meters => maximum total current: 3 mA

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

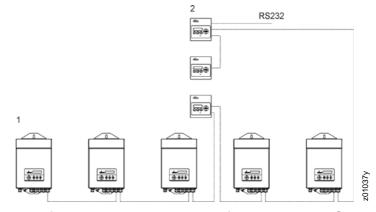
Industrial interfaces

1. Eltex CAN bus (compatible with KNH34, KNH64 and KNHFB)

The Eltex CAN bus allows as many as 20 generator and remote control units to be networked and operated from a central point with minimum installation effort.

An **RS232** control desk link can also be made via the KNHFB remote control.

- 1 KNH35 / KNH65 generator units
- 2 KNHFB remote control units



2. Profibus (optional)

The Profibus DP/V0 with automatic bit rate identification is supported; the functions Modi Sync and Freeze are optional. The KNH35 / KNH65 operates as slave.

3. CANopen (optional)

According to CiA standard 401 - device profile for generic I/O modules.

4. Analog interfaces

0...10 V / 0...20 mA interfaces are available for analog operation and monitoring.



Technical specifications

| Power ratings | | |
|-------------------------------|---|--|
| Output voltage | 330 kV ±2% v.E. (KNH35), 660 kV ±2% v.E. (KNH65) Display resolution 100 V, adjustable in increments of 100 V | |
| Output current | 0,25 mA ±2% v.E. (KNH35), 0,12.5 mA ±2% v.E. (KNH65) Display resolution 10 μA, adjustable in increments of 10 μA | |
| AC component | <3% at U _{max} and I _{max} | |
| Feedback control | Voltage constant or current constant control selectable | |
| Supply voltage | see name plate | |
| External fusing | 6 A | |
| Power input | 255 VA max. | |
| Enclosure | Sheet metal steel, 1.5 mm, enamelled | |
| Protection class | IP 54 | |
| Ambient operating temperature | +5+40°C (+41+104°F) for hanging installation and free convection +5+35°C (+41+95°F) for horizontal mounting | |
| Storage temperature | -20+70°C (-4+158°F) | |
| Ambient humidity | max. 80% r.h., non-condensing | |
| Dimensions with wall bracket | 405 x 245 x 107 mm (H x W x D) | |
| Weight | KNH35: 5.2 kg; KNH65: 6.2 kg | |
| Connections, interfaces | Mains voltage and interfaces are designed as screw-type terminals; alternative plug-type connections are available | |
| High voltage output | 2 high voltage connections for the direct connection of two consumers; number of consumers can be enlarged via distributor box KNHV | |
| CAN-Bus | Double connection (Eltex CAN protocol); parallel networking of max. 20 units; max. cable length of bus 400 meters | |
| CANopen | Double connection; supported bit rates: 10, 20, 50, 125, 250, 500, 800 and 1.000 kbit/s | |
| Profibus Analog interface | Double connection; supported bit rates: 9.6 kbit/s, 19.2 kbit/s, 93.75 kbit/s, 187.5 kbit/s, 500 kbit/s, 1.5 Mbit/s, 3 Mbit/s, 6 Mbit/s, 12 Mbit/s; supported protocol: DP/VO optional functions: Modi Sync and Freeze Floating input for external high voltage release (24 VCD); input setpoint: 010 V or 020 mA | |
| | Output voltage actual value and output current actual value: 020 mA; Floating fault signal contact (max. 24 V / 2 A DC/AC) | |
| Order information | 30 kV | 60 kV |
| Generator | KNH35/A [1] [2] [3] [1]: N = negative, P = positive, [3]: A = Profibus, B = CANopen | KNH65/A [1] [2] [3] [2]: K = terminals, S = plugs |
| Distributor | KNHV3 | KNHV6 |
| Generator-distributor cable | KA/Rr (specify length) | KA/Uu (specify length) |





static control

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