



GENVOLT 7XX30



High Voltage
Benchtop
Laboratory Power Supply



Genvolt

HIGH VOLTAGE POWER SUPPLIES

SPECIFICATION

The 7XX30 range of high voltage power supplies are used primarily as laboratory power supplies. The power supply has an LED digital voltage reading, adjustable voltage range, highly stable output and low ripple. The unit is available in positive or negative polarity and one or two output connectors depending on customer requirements. Both AC and DC input units are supplied with HV output cables. AC input unit is also supplied with IEC connector and cable, and DC input unit is supplied with 24V 5 way XLR connector (female).

Input Specifications

| | |
|-------------------------|---|
| DC Input Voltage Range | 22 - 26 VDC |
| AC Input Voltage Range | 85 - 260 VAC |
| DC Input Current | 2.5A maximum. At full power and minimum input voltage |
| Efficiency at Full Load | more than 70% |

| | |
|-------------------------|---|
| Voltage Line Regulation | Less than 0.3% for an input changing from maximum input to minimum input. |
| Voltage Ripple | Less than 0.01% (peak to peak) of maximum output voltage. |
| Voltage Stability | Less than 0.05% for 8 hours per day with 30 mins warm-up. |
| Temperature Coefficient | Less than 200ppm/°C over the specified temperature. |

Output Specifications

| | 70130 | 70230 | 71030 | 72030 | 73030 |
|-------------------------|---|-------|--------|--------|--------|
| Output Voltage Range* | 0-1kV | 0-2kV | 0-10kV | 0-20kV | 0-30kV |
| Maximum Output Current | 30mA | 15mA | 3.0mA | 1.5mA | 1.0mA |
| Output Power | 0 - 30W | | | | |
| Output Polarity | Positive or Negative With Respective to Ground | | | | |
| Voltage Load Regulation | Less than 0.01% for a load changing from no load to full load | | | | |

*For other output voltages please contact us.

Reliability and Quality Control

- Each power supply has been soak tested with full load at 40°C for no less than 24 hours.

Circuit Protection

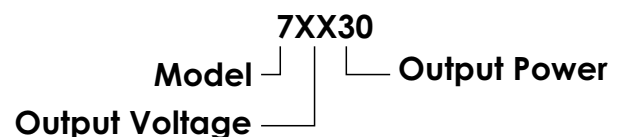
- Overload, arcing and short circuit
- Unit enters constant current mode when fault occurs
- DC input unit protected against reverse polarity from power supply

Options

- Remote interlock available on DC input version
- Dual HV output sockets
- Dual meters
- Mounting bars

Please specify when ordering. For further information please contact us.

Model Number

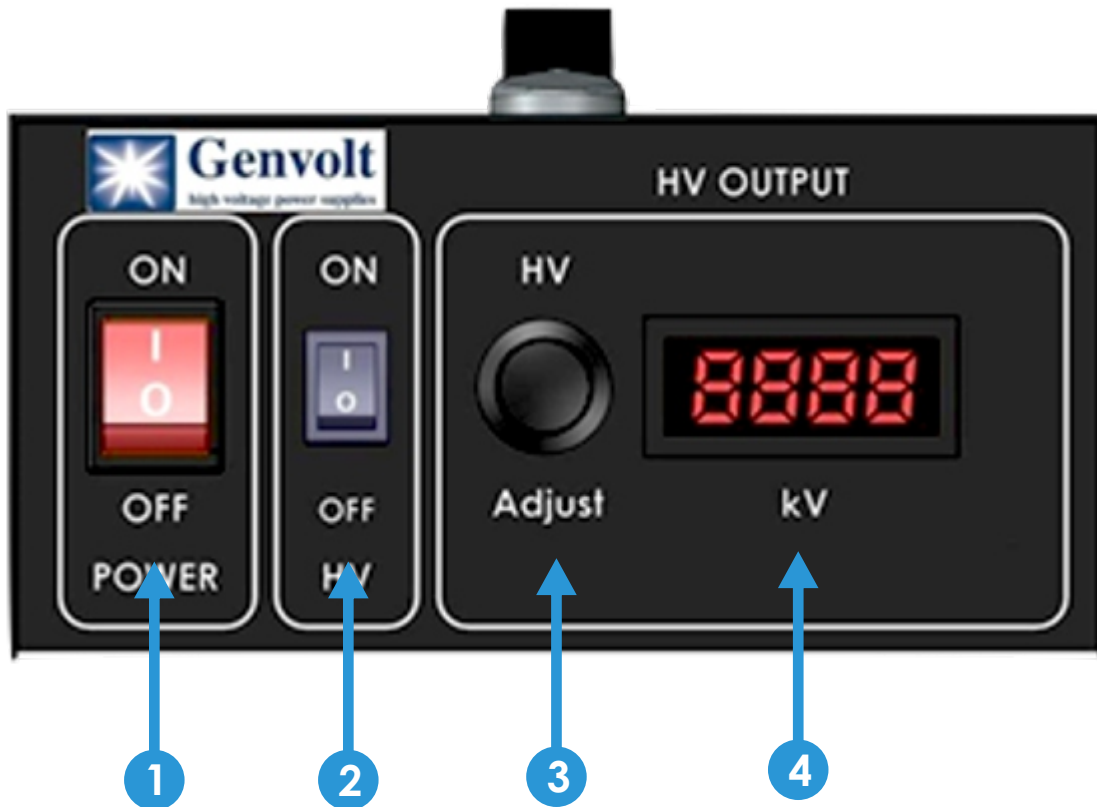




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FRONT CONTROLS



1. Power main switch



This switch controls the input of the entire power supply. Please ensure equipment is turned off during maintenance.

2. High voltage switch



This switch controls the high voltage function.

3. High voltage adjust



10-turn potentiometer for adjusting output voltage.

4. kV



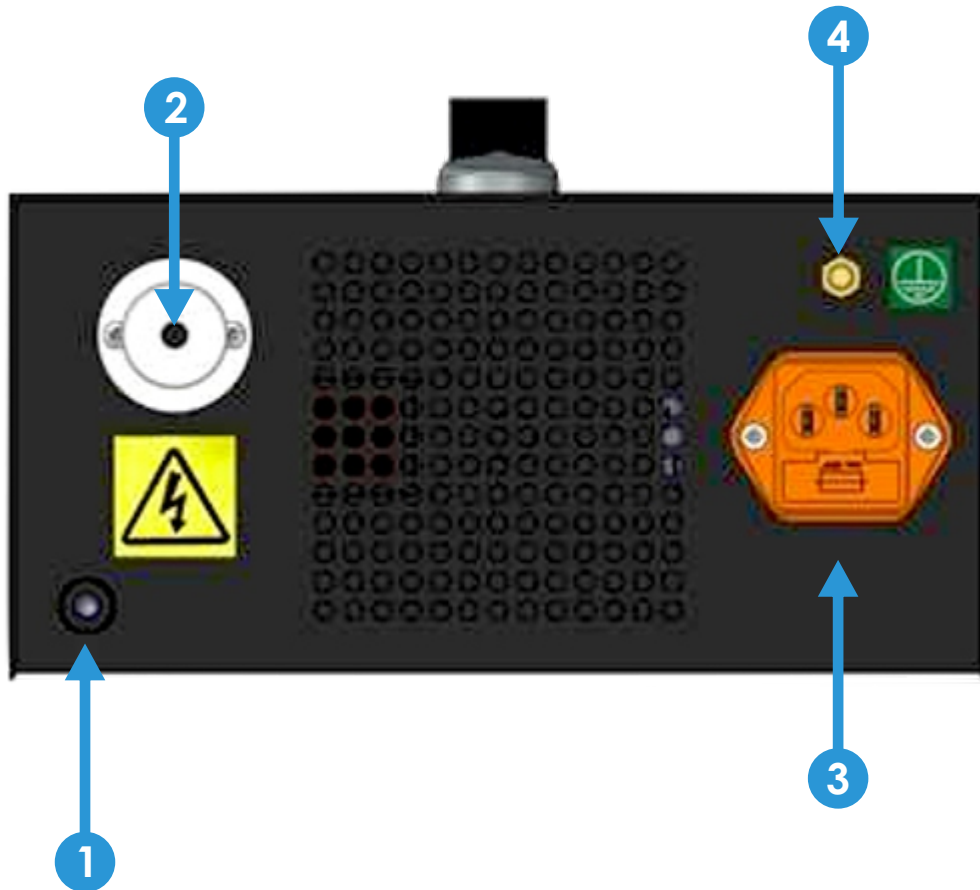
Digital display for output voltage.



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REAR CONTROLS



1. 4mm socket terminal. High voltage ground.

2. High voltage output connector.

3. Input connector: available in both DC 5 way connector or AC standard IEC connector.

4. M6 for earth bonding.



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DIMENSIONS





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OPTIONS 

Remote Interlock & Switch



The remote enable connection is by means of a 3 pole TiniQ connector: with mating half supplied.

- Pin 1 = Enable
- Pin 2 = Ground
- Pin 3 = Not Used

Short Pin 1 to Pin 2 to enable the HV output.

The remote enable must be a voltage free contact.



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SAFETY

Safety

- This power supply contains hazardous voltages and stored energy. Contact with the output may result in fatal injury. It should only be used and maintained by trained personnel.
- The area where the power supply is to be used should be kept clean and dry.
- Before switching the power supply on please confirm that the 10-turn potentiometer is turned fully in a counter-clockwise direction.
- Keep a safe distance from the output connector and any items connected to it.
- Ensure that a secure connection is made between the Earth side of the load and the green and yellow Earth lead.

Environmental Details

| | |
|-----------------------|-------------------------|
| Operating Temperature | 0 to 40°C |
| Storage Temperature | -20 to 60°C |
| Humidity | 0 to 90% non-condensing |

Mechanical Details

| | |
|-----------------------|--|
| Weight | DC Input: 2.8kg (6.17lbs) |
| | AC Input: 3.6kg (7.94lbs) |
| Dimensions | Width 200mm, Height 100mm, Depth 300mm |
| Power Input Connector | AC Input: Standard IEC Connector |
| | DC Input: 24V 5 way XLR Connector (male) |
| HV Output Connector | Genvolt 30kV HV Connector |

For requirements other than those specified, please do not hesitate to contact us. Please note that design improvements may lead to specification changes.



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