GENVOLT
7000D

Dual Output High Voltage
Laboratory Power Supply

The 7000D range of high voltage power supplies are used primarily as laboratory power supplies. The power supply has two LED digital voltage reading, adjustable voltage range, highly stable output and low ripple. The unit is available in positive, negative polarity or both and 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	73530
Output Voltage Range*	0-1kV	0-2kV	0-10kV	0-20kV	0-30kV	0-35kV
Maximum Output Current	30mA	15mA	3.0mA	1.5mA	1.0mA	0.85mA
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.

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
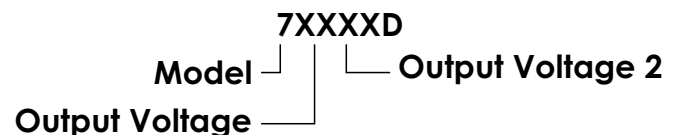
Options

• Remote interlock available on DC input version
• Rack mounted

Please specify when ordering. For further information 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.
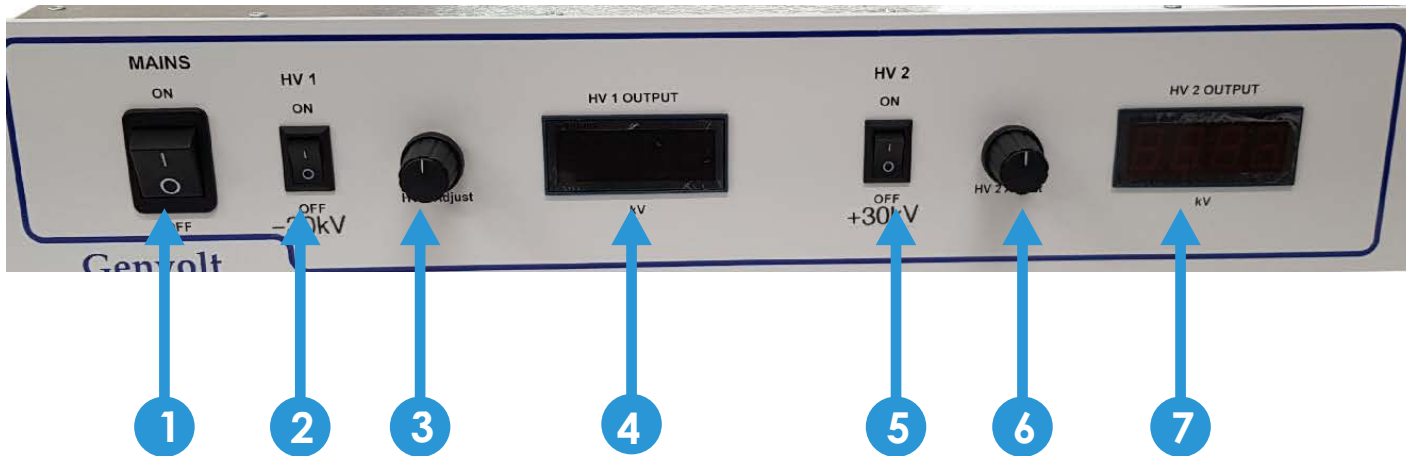
Model Number

7XXXXD

Model

Output Voltage 2

Output Voltage

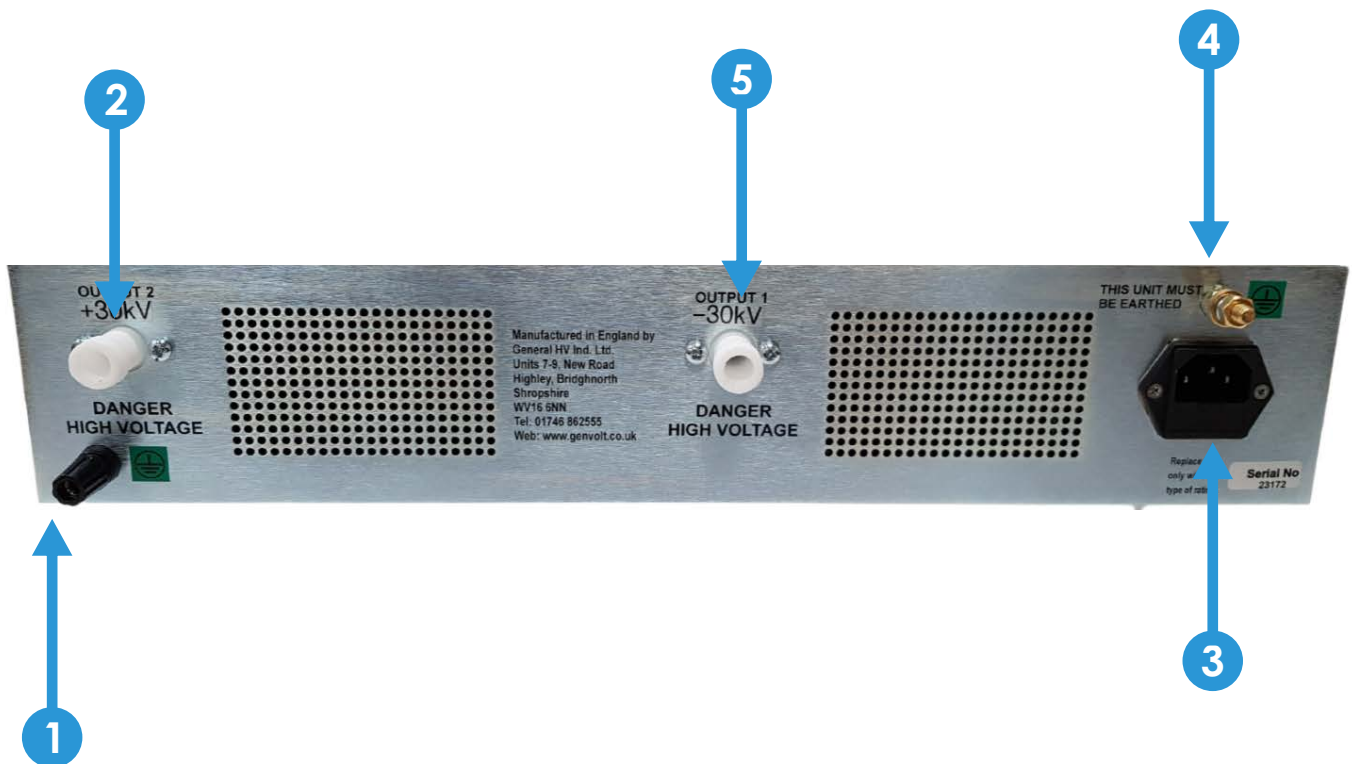|	
1. Power main switch	This switch controls the input of the entire power supply. Please ensure equipment is turned off during maintenance.
2. High voltage switch	PSU 1.This switch controls the high voltage function of unit 1.
3. High voltage adjust PSU1	10-turn potentiometer for adjusting output voltage for unit 1.
4. kV for PSU1	Digital display for output voltage.
5. High voltage switch	PSU 2.This switch controls the high voltage function of unit 2.
6. High voltage adjust PSU2	10-turn potentiometer for adjusting output voltage for unit 2.
7. kV for PSU2	Digital display for output voltage.

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HIGH VOLTAGE POWER SUPPLIES

OUTPUT 2
+30kV
DANGER
HIGH VOLTAGE

OUTPUT 1
−30kV
DANGER
HIGH VOLTAGE

Manufactured in England by
General HV Ind. Ltd.
Units 7-9, New Road
Highley, Bridghnorth
Shropshire
WV16 5NN
Tel: 01746 862555
Web: www.genvolt.co.uk

THIS UNIT MUST
BE EARTHED

Replace
only w...
type of rati...

Serial No
23172

1. 4mm socket terminal - High Voltage Ground.

2. High voltage output connector PSU2.

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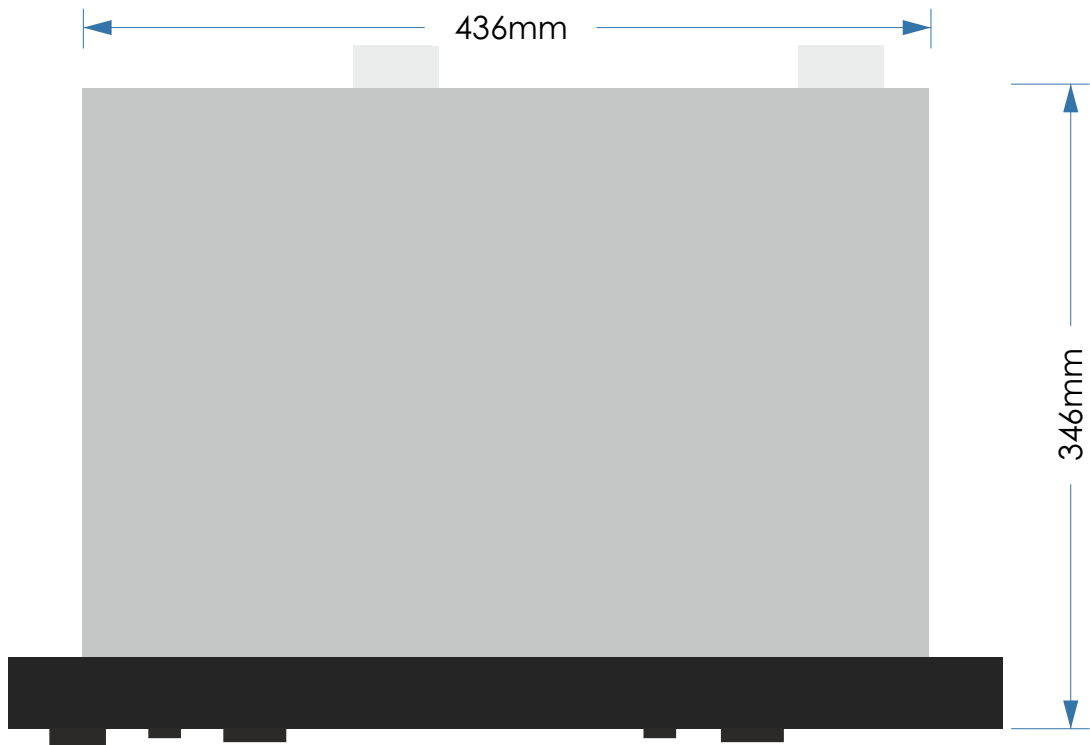   AC standard IEC connector.

4. M6 for earth bonding.

5. High voltage output connector PSU1.

436mm

346mm

483mm

84mm

MAINS
ON

OFF

HV 1
ON

OFF
-30kV

HV 1 Adjust

HV 1 OUTPUT

kV

HV 2
ON

OFF
+30kV

HV 2 Adjust

HV 2 OUTPUT

kV

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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: 4.45kg (9.81lbs)
	AC Input: 6.05kg (13.34lbs)
Dimensions	Front: 483mm x 88mm
	Cabinet: 436mm x 346mm x 88mm
Power Input Connector	AC Input: Standard IEC Connector
	DC Input: 24V 5 way XLR Connector (male)

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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HIGH VOLTAGE POWER SUPPLIES

7000D Series Dual Output, 19" Rack Mounted PSU

MODEL	DESCRIPTION	OUTPUT 1	OUTPUT 2
71010PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	10kV+	10kV+
71020PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	10kV+	20kV+
71030PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	10kV+	30kV+
71035PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	10kV+	35kV+
71010ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	10kV+	10kV-
71020ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	10kV+	20kV-
71030ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	10kV+	30kV-
71035ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	10kV+	35kV-
72010PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	20kV+	10kV+
72020PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	20kV+	20kV+
72030PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	20kV+	30kV+
72035PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	20kV+	35kV+
72010ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	20kV+	10kV-
72020ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	20kV+	20kV-
72030ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	20kV+	30kV-
72035ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	20kV+	35kV-
73010PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	30kV+	10kV+
73020PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	30kV+	20kV+
73030PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	30kV+	30kV+
73035PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	30kV+	35kV+
73010ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	30kV+	10kV-
73020ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	30kV+	20kV-
73030ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	30kV+	30kV-
73035ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	30kV+	35kV-
73510PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	35kV+	10kV+
73520PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	35kV+	20kV+
73530PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	35kV+	30kV+
73535PD	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	35kV+	35kV+
73510ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	35kV+	10kV-
73520ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	35kV+	20kV-
73530ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	35kV+	30kV-
73535ND	Dual Independent Output, 2 x 30W, 2U High, Rack Mounted PSU	35kV+	35kV-

GLOBAL PRESENCE

Genvolt
high voltage power supplies

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