

## SLA-HV-3000 High Voltage Amplifier

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Single channel

Maximum output voltage 3kVp-p( $\pm 1.5$ kVp)

The maximum output current is 40mA<sub>p</sub>

Bandwidth (-3dB) DC to 80kHz

Slew rate  $\geq 534$ V/ $\mu$ s



### Overview

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SLA-HV-3000 is an ideal single-channel high voltage amplifier for amplifying AC/DC signals. Maximum output 3kVp-p( $\pm 1.5$ kVp) high voltage, can drive high voltage load. The voltage gain can be adjusted, and the common Settings can be saved with one key, providing a convenient and simple choice of operation. It can be used with the mainstream signal generator to achieve perfect signal amplification.

### Voltage Gain

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Voltage gain 0~1000 times NC adjustable, specifically divided into coarse adjustment (1step) and fine adjustment (10 step) two. Combined with the LCD panel gain display, can quickly and accurately adjust to the required voltage value.

### LCD Panels Display

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SLA-HV-3000 adopts liquid crystal display, dynamic display of device status and parameters, different color prompts make man-machine interaction more efficient, operation interface at a glance, simple and easy to understand.

### Monitor

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1/1000 Monitor: The voltage of this port is 1/1000 of the output port, and the monitoring port is a BNC connector, which can be directly connected to the oscilloscope for real-time monitoring of the output voltage.

### Output & Input

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The output is SHV RF connector, the maximum output voltage is 3kVp-p( $\pm 1.5$ kVp), the maximum output current is 40mA<sub>p</sub>. The input is BNC interface.

## Specifications

<b>Model</b>	SLA-HV-3000
<b>Channel</b>	1
<b>Form of output</b>	Single output
<b>Bandwidth (-3dB)</b>	DC to 80kHz
<b>Maximum output voltage</b>	3kVp-p( $\pm 1.5$ kVp)
<b>Maximum output current</b>	20mA <sub>p</sub> (DC~50Hz)
	40mA <sub>p</sub> (> 50Hz)
<b>Maximum output power</b>	60W <sub>p</sub>
<b>Fuse</b>	4A/250V
<b>Voltage gain</b>	x0~1000 (1 step/10 step)
<b>Upper limit of load R<sub>L</sub></b>	$\geq 74.5\text{K}\Omega$ (DC~50Hz)
	$\geq 37\text{K}\Omega$ (> 50Hz)
<b>Output resistance</b>	500 $\Omega$
<b>Slew rate</b>	$\geq 534\text{V}/\mu\text{s}$
<b>Output voltage error</b>	$\leq \pm 1\%$ @(DC, 1.5kV)
<b>Total harmonic distortion</b>	$\leq 1\%$ @1kHz, 2.4kVp-p
<b>Input resistance</b>	10k $\Omega$
<b>Voltage monitor</b>	1000: 1
<b>Input amplitude</b>	0~10Vp-pMAX
<b>Zero-point drift of output voltage</b>	$\leq \pm 1\text{V}$
<b>Output connector</b>	SHV RF connector
<b>Protection</b>	Overcurrent protection
<b>Signal ground</b>	connected with the housing and power cord

## Other

<b>Supply voltage</b>	AC220V $\pm 10\%$ ,50Hz
<b>Operating temperature</b>	0°C ~ 45°C
<b>Storage temperature</b>	-20°C ~ 50°C
<b>Humidity</b>	$\leq 80\%$ RH, no condensation
<b>Warranty</b>	3 years
<b>Size</b>	442*164*574mm(w * h * d)

## Order

<b>Model</b>	SLA-HV-3000 High Voltage Amplifier
<b>Parameters</b>	DC to 80kHz (-3dB)
<b>Accessories</b>	*1 three-core power cord, *2 BNC cables, *1 high-voltage output line, *1 safety tube, product specification, certificate, packing list, factory test report each.
<b>Contact</b>	sales@salukitec.com