

H2200 Embedded high-voltage amplification module

- ✓ **HV amplification:** $\pm 2000V$ (4000V_{Vp-p})
- ✓ **Strong output capacity:** $\pm 20mA$, 40Wp
(Current unrestricted at all frequency ranges)
- ✓ **Large-signal bandwidth:** DC-10kHz

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H2200

Huatek H2200 is a typical modular high-voltage signal amplifier. Compact in size, it is made of high-strength aluminum alloy material, combining portability with high durability, and can be easily integrated into equipment as a high-voltage module.

The H2200 is specially optimized for integrated development. It is equipped with a hiccup protection mode to enhance the fault tolerance of test equipment, and also features a fault signal interface. In the event of a fault, the alert signal can be transmitted through this interface, allowing for intuitive judgment of the device's operating status.

Features

Small-sized: ✓ 1U(4.45cm) height, Palm-Size

Multiple monitoring: ✓ Voltage Monitor, Current Monitor

Output rated voltage at all frequency band:

✓ Input compensation, accepting maximum $\pm 5V$ input

Intelligent protection:

✓ Overload protection, short circuit protection

✓ Hiccup protection mode, Auto-Recovery; Single protection mode



TTL Trigger:

✓ Convenient for programming and integration

Fault feedback interface:

✓ Built-in fault signal triggering

✓ Automatically issues fault signals

Typical Application

- Piezoelectric / MEMS
- Material science
- Ultrasonic transducer
- Micro-nanotechnology and microfluidics
- High-voltage insulated cable
- Electroluminescence
- Electric field and magnetic field drive
- Power electronics
- Plasma excitation
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Specifications

Maximum output voltage	±2kV
Maximum current output	±20mA
Peak power output	40Wp
Output impedance	200Ω
High-voltage output interface	SHV
Large-signal bandwidth(-3dB)	DC-10KHz
Small-signal bandwidth(-3dB)	DC-50KHz
Slew Rate	>89V/us
Gain	Fixed-400x
DC offset	/
Response time	<25μs
Zero Drift	<±100mV
Maximum input voltage	±5V
Input impedance	10KΩ
Input interface	MCX
Communication interface	/
TTL Trigger	MCX

Protection function	Overload protection, Short circuit protection
Protected mode	Hiccup(Auto recovery)
Voltage monitoring ratio	1V/500V
Current monitoring ratio	100mV/1mA
Voltage/Current monitoring impedance	50Ω
Voltage/Current monitoring interface	MCX
Power	DC 24V/3A
Operating Environment	0~45°C / ≤85%RH / Max altitude: 2000m
Stability	Time drift : <50ppm/h Temperature drift: 100ppm/°C 23°C±3°C, preheat 30min
Dimensions/Weight (Excluding protruding parts)	44.5*200*170mm ≈1Kg

Configuration List

Standard Equipment List

Amplifier main unit*1, User's manual*1,
high-voltage output cable*1, MCX-BNC cable
*5, power adapter*1

Optional Equipment List

High-voltage attenuation probe,
custom high-voltage output cable

Dimensions

