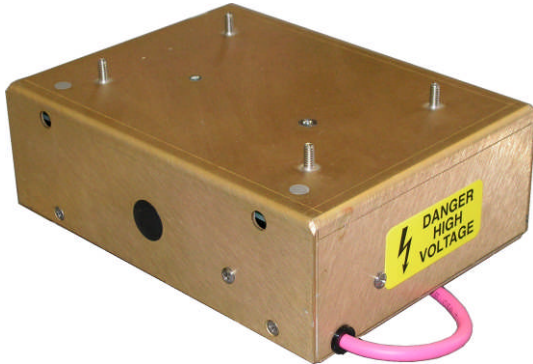


HYACINTH TECHNOLOGY, INC.

HIGH VOLTAGE CAPACITOR CHARGER TH SERIES

20kV max., 80J/s max., DC input



The TH Series line of capacitor chargers provides robust performance in a compact, cost-effective package.

Designed specifically for portable applications that need to run on 24 VDC or 12 VDC, the TH Series is capable of charging large values of capacitance. It also features a varying output current profile that allows for lower peak input current than similarly rated constant output current converters.

High Voltage Output

Rated Output Voltage

- 20 kV max (+ or -) for 24 VDC nominal input
- 16 kV max (+ or -) for 12 VDC nominal input
- Peak charging rate (charge from 0V to rated output voltage)
- 80 J/s for 24 VDC nominal input
- 50 J/s for 12 VDC nominal input
- Temperature stability of programmed output voltage
- <+/-200 ppm/°C typ., <100 ppm/°C opt.

Power Input

- 24.0 VDC +/- 10%, 4 A peak nom
- 12.0 VDC +/-10%, 8 A peak nom.

Grounding and isolation configuration

- Signal ground, monitor ground, power ground and output return are non-isolated.

Controls

- Program voltage input configuration - single-ended, ref. to signal ground
- Program voltage input to output gain
- Positive outputs - +4413 (other gains optional)
- Negative outputs - -4413 (other gains optional)
- Enable control - LO=ON, HI or open circuit = OFF

Monitors

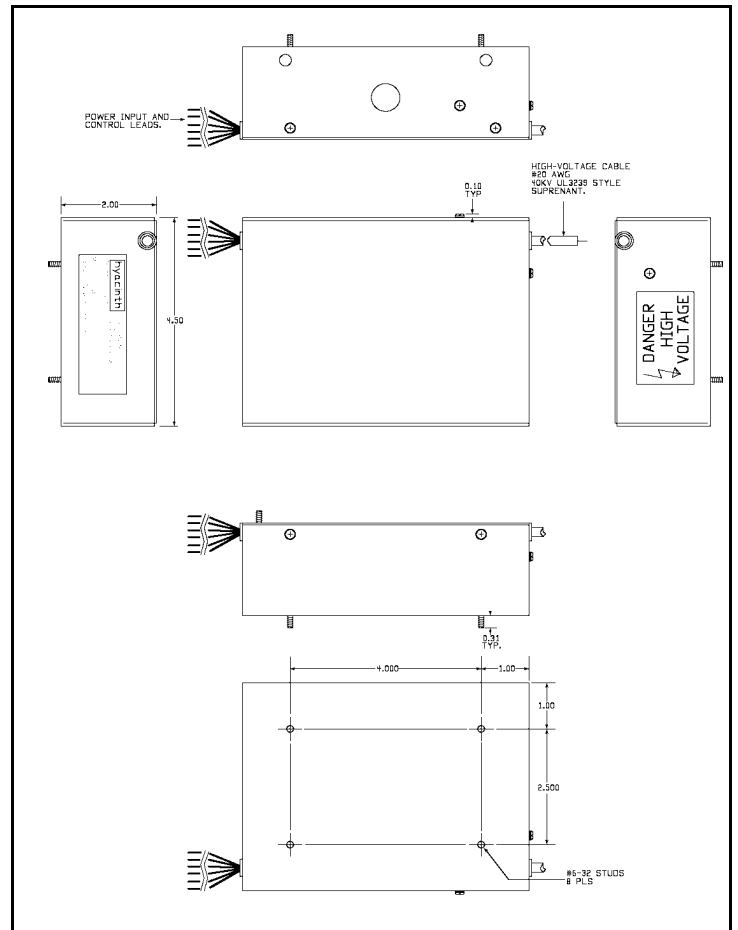
- Voltage monitor output configuration - single-ended, buffered
- Voltage monitor gain - 4413:1 (other gains optional)

Environmental

- Operating temperature: 0°C to 55°C case
- Storage temperature - -40°C to 70°C, storage
- Cooling requirement - Unit shall be mounted to heat dissipating surface and/or air cooled to maintain case temperature within rated range
- Humidity - 90% RH max. non-condensing.

Mechanical

- High voltage output - 40 kV rated UL3239 cable
- Low voltage I/O - flying leads
- Case material - aluminum alloy
- Finish - yellow iridite or clear chromate
- Case size - 6.00" x 4.50" x 2.00"



The TH Series, as well as other Hyacinth Technology products can be customized for your application. For prompt assistance, call us with your specific requirements.

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Specifications subject to change without prior notice.

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