

HIGH VOLTAGE POWER SUPPLY EV SERIES

100 kV max., 300 W / 600 W max., AC input

- Output voltages to + or - 100 kV
- Fully programmable over entire voltage range
- 600 W maximum output power
- 0.2% output ripple nominal (at 100 kV, 40 pF)
- Constant voltage and constant current modes
- Built-in arc-detector
- Enable control and optional sleep mode (PFC version)
- Voltage and current monitors available
- 110 VAC /220 VAC or universal PFC power input
- High efficiency (>85% typical @ max. power) resonant converter topology
- Compact modular design



High Voltage Output

Voltage - full-scale voltages to + or - 100 kV, full-range adjustable from less than 0.1 % to 100 % of full scale voltage

Output power - 300W or 600 W max.

Ripple - 0.2 % typical at rated max. voltage, rated current, 40 pF load capacitance.

Load regulation - 0.03 % typical

Line regulation - < 0.02 % typical

Temperature stability - +/-200 ppm/°C max., lower TCs available.

Power Input

100 VAC to 130 VAC/200 VAC to 260 VAC, 50 Hz / 60 Hz

PFC input options:

300W max. output - 90 VAC to 265 VAC,

50 Hz / 60 Hz, 0.99 PF typical at full load.

600W max. output - 180 VAC to 265 VAC,

50 Hz / 60 Hz, 0.99 PF typical at full load.

Built-in AC input EMI filter.

Controls

Voltage and current programming input configuration - single-ended, ref. to signal ground

Voltage programming - 0 to 5 V or 0 to 10 V program input for full range adjustment.

Current programming - Fixed, or 0 to 5 V, or 0 to 10 V program input for full range adjustment.

Enable control - Active HI or LO

Monitors

Voltage monitor - 5 V or 10 V full scale. Other gains optional.

Current monitor - 5 V or 10 V full scale. Other gains optional.

Over-temperature and fault monitors - open collector, active=ON

Environmental

Operating temperature: 0°C to 40°C ambient

Storage temperature - -40°C to 70°C, storage

Humidity - 90% RH max. non-condensing.

Mechanical

High voltage output - deep well disconnect for bare or shielded polyethylene insulated cable

Low-voltage inputs and monitor - 15 pin D-sub female connector

AC power input - IEC inlet type C14

Case material - aluminum alloy

Finish - yellow iridite or clear chromate

Case size - 6.00" W x 4.75" H x 13.20" D

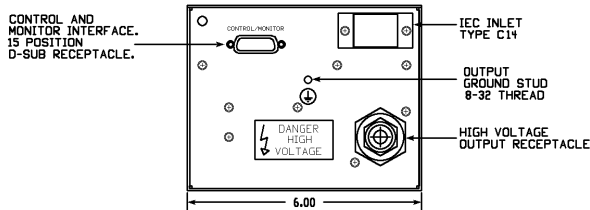
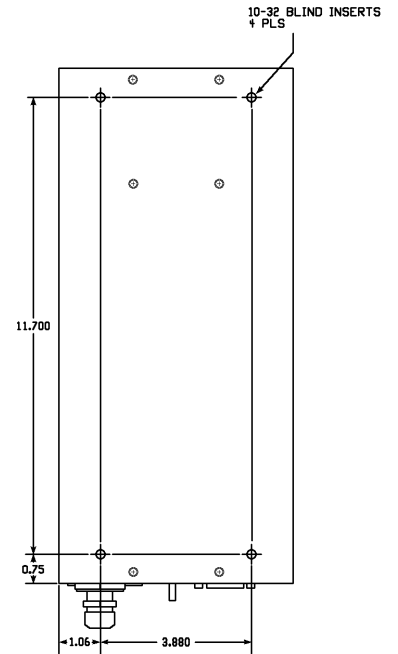
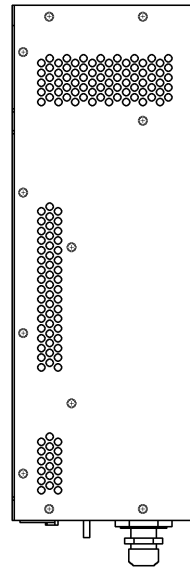
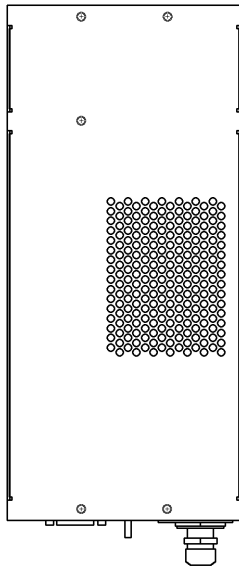
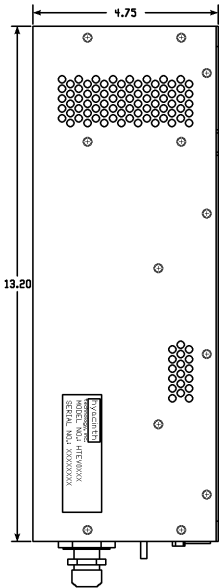
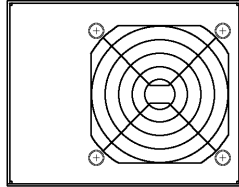
The EV Series provides plenty of flexibility for application-specific requirements. Contact the factory with details of your application.

HYACINTH TECHNOLOGY, INC.

HIGH VOLTAGE POWER SUPPLY EV SERIES

100 kV max., 300 W / 600 W max., AC input

HTEV Series Mechanical Outline.



hyacinth
technology, inc.

www.hyacinthtech.com
email: contact@hyacinthtech.com

155 L New Boston St., Woburn, MA 01801, USA

+1 781 937 0619 voice

+1 781 937 6319 fax

Specifications subject to change without prior notice.

Copyright © 2008 Hyacinth Technology, Inc..

HTEV Data Rev. 1