



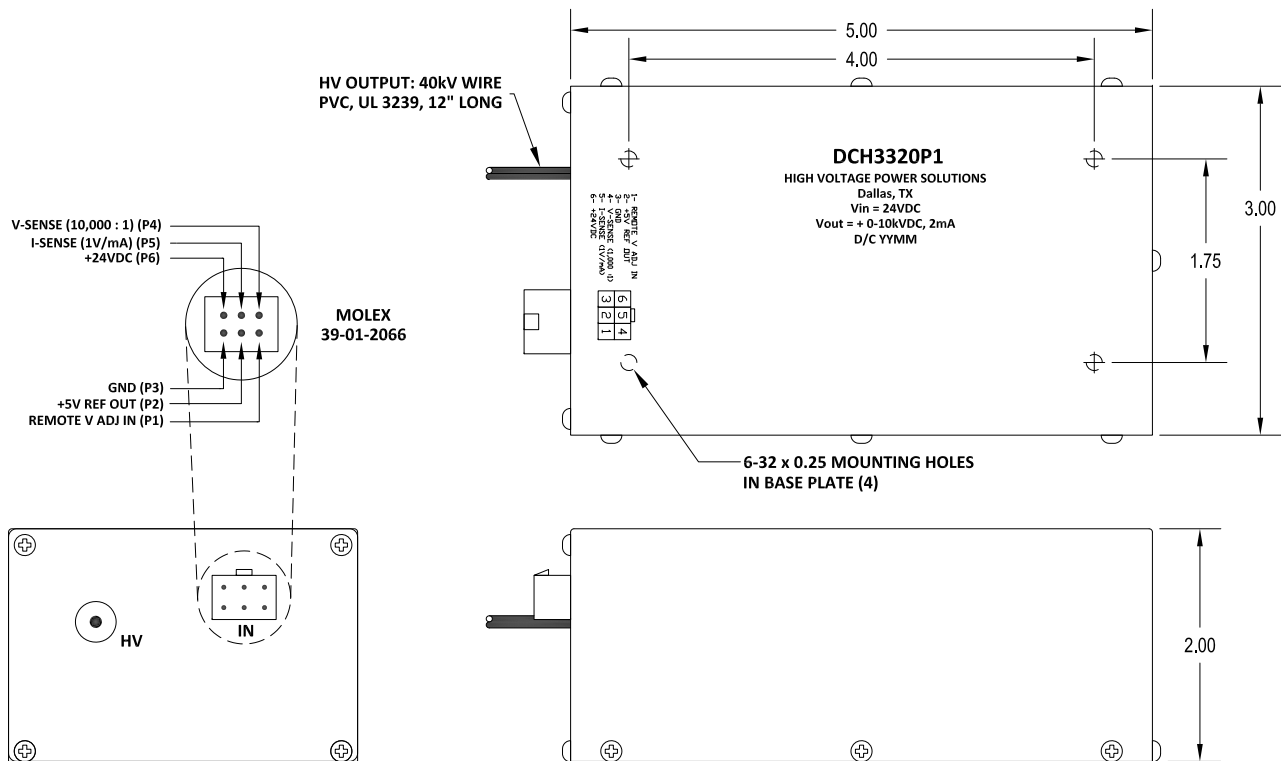
# DCH3320 Series

Regulated/Remote Adjustable 0 to 10kV  
DC-DC High Voltage Power Supply

- 24VDC Input voltage
- 0 to 10kV Adjustable Output voltage
- Remote Adjust 0 to 5V (5V Reference provided)
- Output Current 0 to 2mA
- 0 to 20W Output power
- >70% Efficiency
- Current Sense Output
- Foldback Current Limiting
- 1000:1 Voltage Sense Output
- Short-Circuit Protected
- Base-plate Mounting
- Resonant Switch Mode Topology
- Aluminum Enclosure
- Low Ripple



|                                | Conditions                     | Value      | Units    |
|--------------------------------|--------------------------------|------------|----------|
| <b>Input</b>                   |                                |            |          |
| <b>Input Voltage</b>           | All Versions                   | 24         | VDC      |
| <b>Power</b>                   | At Max load                    | 28         | W        |
| <b>Output</b>                  |                                |            |          |
| <b>Voltages Available</b>      | Primary Output                 | ±10        | kVDC max |
| <b>Voltage Adjustment</b>      | 0 to 5 VDC Input               | 0 to 100%  | -        |
| <b>Power</b>                   | Nominal Input, Max Vo          | 20         | W        |
| <b>Current, Primary Output</b> | Nominal Input, Max Vo          | 2          | mA       |
| <b>Regulation, Primary Vo</b>  | Any Static Load, Max Vo        | 1%         | VDC      |
| <b>Line Regulation</b>         | Over Input Range               | 0.1%       | VDC      |
| <b>Ripple</b>                  | Full Load, Max Vo              | 2.5%       | Vp-p     |
| <b>Stability</b>               | Over 8hr, 30 min warm up       | <0.2%      | VDC      |
| <b>Environmental</b>           |                                |            |          |
| <b>Operating Temperature</b>   | Case Temp, Full Load, Max Vo   | 0 to +60   | °C       |
| <b>Temp Coefficient</b>        | Over the Operating Temperature | 0.01       | %/°C     |
| <b>Storage</b>                 | Non-Operating, Case Temp       | -40 to +85 | °sC      |
| <b>Humidity</b>                | Non-Condensing                 | 0 to 95%   | RH       |
| <b>Altitude</b>                | Standard Operating Conditions  | 0 to 10000 | Feet     |



| Part Number | Input Voltage | Output Voltage | Polarity | Output Power | Maximum Output Current |
|-------------|---------------|----------------|----------|--------------|------------------------|
| DCH3320P1   | 0 to 24 VDC   | 0 to 10kV      | Positive | 20 Watts     | 2mA                    |
| DCH3320N1   | 0 to 24 VDC   | 0 to -10kV     | Negative | 20 Watts     | 2mA                    |

## Applications:

- Photomultipliers
- Ionizers
- CRT Grid Circuits
- Biasing
- Dielectric Testing
- Piezoelectric Drivers
- Electrostatic Chucks
- Sealing Applications
- Ink Jet Printers
- Photo Detectors

## Mechanical:

- Dimensions: 5.0" x 3.0" x 2.0"
- Molex 03-06-2062 Connector
- Weight: 18.0 Ounces
- Operating Temperature Range: -40°C to +70°C