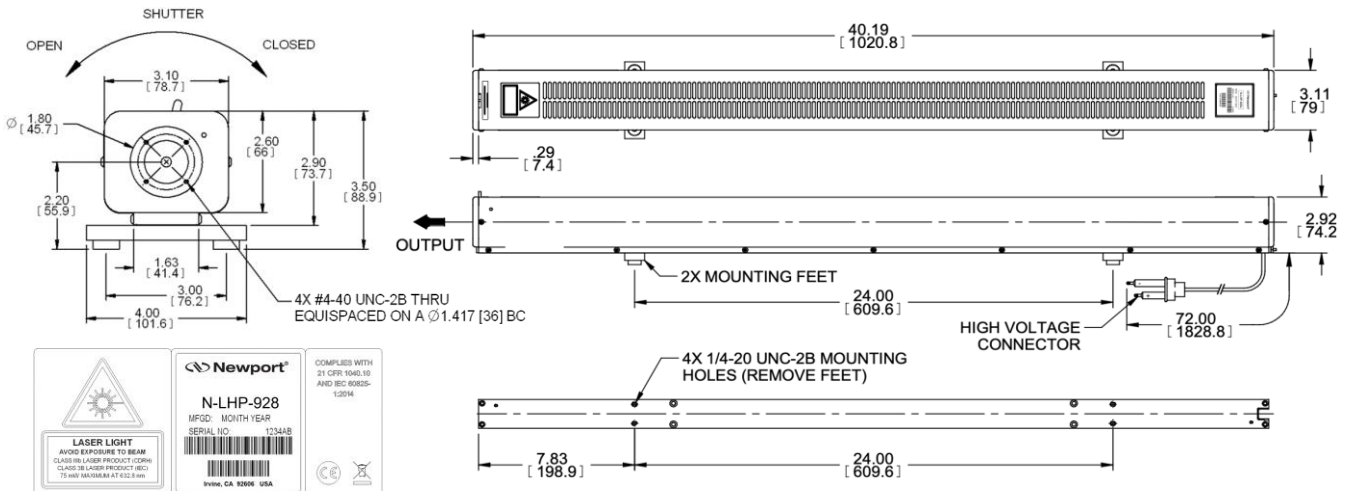


# 35 mW 632.8 nm (RED) HELIUM NEON LASER MODEL: N-LHP-928

| OUTPUT SPECIFICATIONS                             |                   |  |
|---|-------------------|--|
| CW Power Output (mW)                              |                   | > 35.0                                   |
| Wavelength (nm)                                   |                   | 632.8                                    |
| Transverse Mode                                   |                   | > 90% TEM <sub>00</sub>                  |
| Polarization                                      |                   | Linear > 500:1                           |
| Beam Diameter at 1/e <sup>2</sup> Points          |                   | 1.23 ± 5%                                |
| Beam Divergence (mrad)                            |                   | 0.66 ± 5%                                |
| Longitudinal Mode Spacing (MHz)                   |                   | 165                                      |
| Mode Sweeping                                     |                   | < 5%                                     |
| Long Term Power Drift (8 hrs)                     |                   | < 5%                                     |
| Amplitude Noise, 30 Hz to 30 MHz (peak-to-peak)   |                   | < 1%                                     |
| Warmup to > 95% of Maximum Power (minutes)        |                   | < 60                                     |
| Beam Position Drift From Cold Start (mrad)        |                   | N/A                                      |
| Beam Position Drift After 15 Minute Warmup (mrad) |                   | < 0.03                                   |
| ELECTRICAL SPECIFICATIONS                         |                   |  |
| Start Voltage (kVdc)                              |                   | < 15                                     |
| Recommended Operating Current (mA)                |                   | 8.0 ± 0.2                                |
| Operating Voltage (VDC)                           |                   | 5100 ± 100                               |
| ENVIRONMENTAL SPECIFICATIONS                      |                   |  |
|   | OPERATING         | NON-OPERATING                            |
| Temperature (°C)                                  | +10 to +40        | -40 to +80                               |
| Altitude (meters)                                 | 0 to 3000         | 0 to ∞                                   |
| Relative Humidity (% , non-condensing)            | 0 to 99%          | 0 to 99%                                 |
| Mechanical Shock (g)                              | < 1 for < 11 msec | < 25 for < 11 msec<br>< 100 for < 1 msec |

Please contact factory for other options. Specifications are subject to change without notice.



Dimensions in Inches (mm)

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Rev 4.20.1

# LABORATORY HELIUM NEON LASER POWER SUPPLY

## INPUT SPECIFICATIONS

|                     |                                       |
|---------------------|---------------------------------------|
| Voltage (VAC)       | Universal* 110 to 240                 |
| Line Frequency (Hz) | 50 or 60                              |
| Current (A)         | < 0.75 at 115 VAC / < 0.37 at 240 VAC |

## OUTPUT SPECIFICATIONS

|                                 |              |
|---------------------------------|--------------|
| Sustaining Voltage (VDC)        | 4500 to 5500 |
| Start Voltage (kVDC)            | >16          |
| Current Setting (mA)            | 8.0 ± 0.2    |
| Power (W)                       | < 46         |
| Current Ripple (% Peak to Peak) | < 5.0        |
| Current Ripple (% RMS)          | < 2.0        |
| Time Delay (Seconds)            | 3 to 8       |

## ENVIRONMENTAL SPECIFICATIONS

### OPERATING

### NON-OPERATING

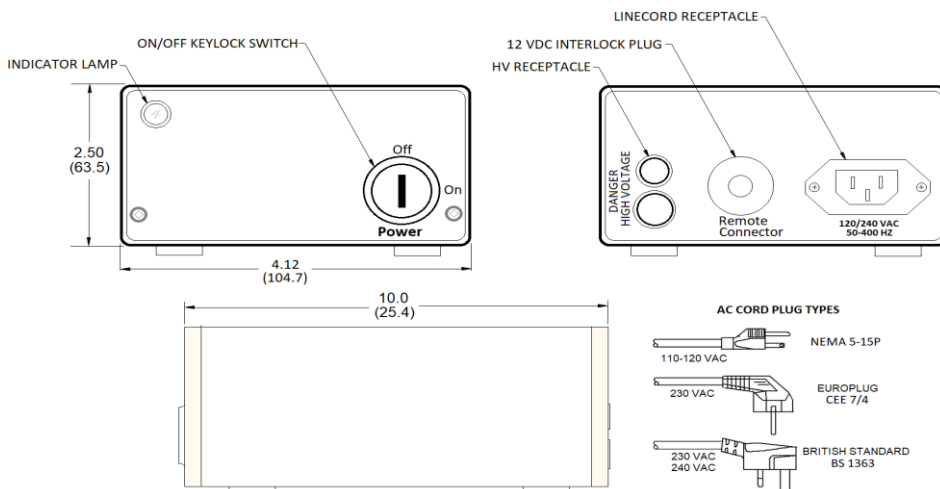
|                                      |                    |  |
|--------------------------------------|--------------------|--|
| Temperature (°C)                     | 0 to +50           | -40 to +80                               |
| Altitude (meters)                    | 0 to 3000          | 0 to ∞                                   |
| Relative Humidity (% non-condensing) | 0 to 99%           | 0 to 99%                                 |
| Mechanical Shock (g)                 | < 50 for < 11 msec | < 50 for < 11 msec<br>< 100 for < 1 msec |

Agency Approvals

CE, EN 60950

Specifications are subject to change without notice.

\*Please specify AC cord plug type: NEMA 5-15P for 110 to 120 VAC, Europlug (CEE7/4) for 230 VAC, or British Standard (BS 1363) for 230 to 240 VAC.



Dimensions in Inches (mm)  
Reference Dimensions Only

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