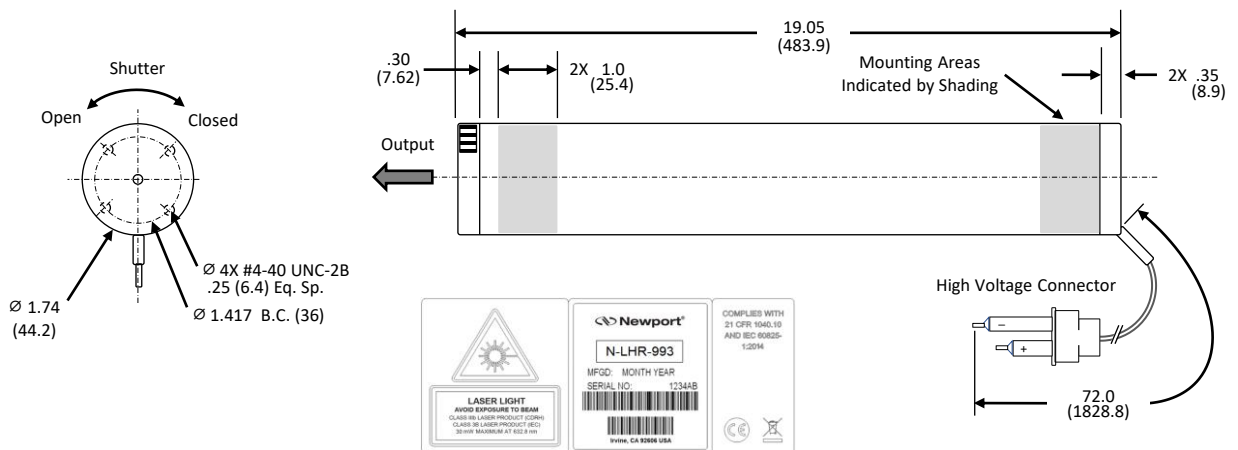


# 12 mW 632.8 nm (RED) HELIUM NEON LASER MODEL: N-LHR-993

OUTPUT SPECIFICATIONS			
CW Power Output (mW)		> 12.0	
Wavelength (nm)		632.8	
Transverse Mode		> 90% TEM <sub>00</sub>	
Polarization		Random	
Beam Diameter at 1/e <sup>2</sup> Points		0.65 ± 5%	
Beam Divergence (mrad)		1.24 ± 5%	
Longitudinal Mode Spacing (MHz)		341	
Mode Sweeping		< 2%	
Long Term Power Drift (8 hrs)		< 5%	
Amplitude Noise, 30 Hz to 30 MHz (peak-to-peak)		< 2.8%	
Warmup to > 95% of Maximum Power (minutes)		< 15	
Beam Position Drift From Cold Start (mrad)		< 0.05	
Beam Position Drift After 15 Minute Warmup (mrad)		< 0.03	
ELECTRICAL SPECIFICATIONS			
Start Voltage (kVdc)		< 10	
Recommended Operating Current (mA)		6.5 ± 0.2	
Operating Voltage (VDC)		2640 ± 100	
ENVIRONMENTAL SPECIFICATIONS		OPERATING	NON-OPERATING
Temperature (°C)		-20 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 < 100 for < 1 msec

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



# LABORATORY HELIUM NEON LASER POWER SUPPLY

## INPUT SPECIFICATIONS

Voltage (VAC)*	115 / 230
Line Frequency (Hz)	50 to 400
Current (A)	0.6 / 0.3

## OUTPUT SPECIFICATIONS

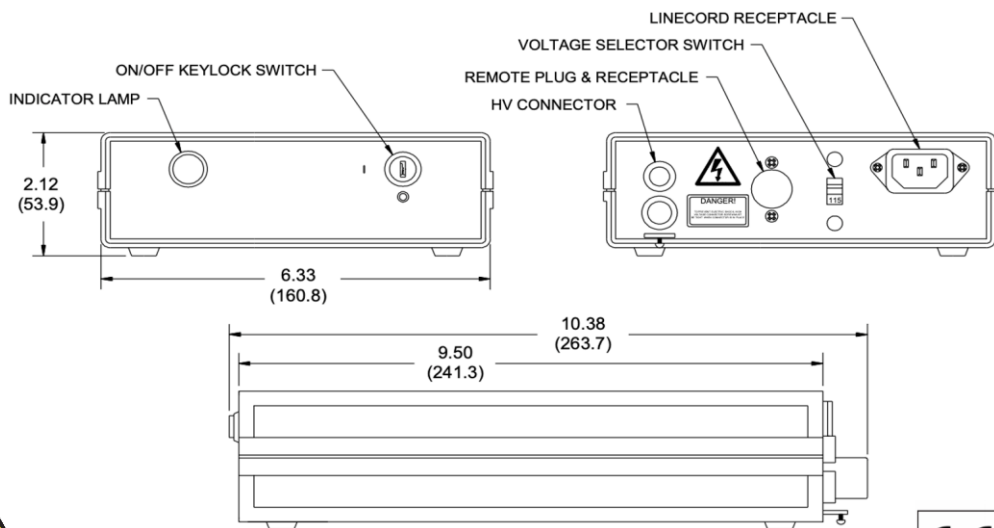
Sustaining Voltage (VDC)	2400 to 3200
Start Voltage (kVDC)	> 11
Current Setting (mA)	6.5 ± 0.2
Power (W)	< 20.2
Current Ripple (% Peak to Peak)	< 2.0
Current Ripple (% RMS)	< 0.71
Time Delay (Seconds)	3 to 7

## ENVIRONMENTAL SPECIFICATIONS

	OPERATING	NON-OPERATING
Temperature (°C)	-20 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)	< 50 for < 11 msec	< 50 for < 11 msec < 100 for < 1 msec

Specifications are subject to change without notice.

\*Please specify AC power cord plug type: NEMA 5-15P for 100 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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